The following catalog has gaps in its page numbers, or doesn't have any numbers. We have chosen to leave the page numbering in the order that Acrobat assigns it.





Parts Manual



Performance you rely on.™



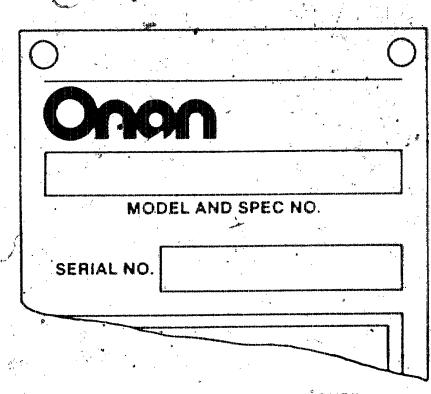
350 kW Genset

DFN / LDFN

General Information

For parts or service, contact the dealer from whom you purchased this equipment or refer to your Nearest Authorized Onan Parts and Service Center.

To avoid errors or delay in filling your parts order, always give the MODEL, SPEC NO, and SERIAL NO. from the Onan nameplate.



For handy reference, insert "YOUR" nameplate information in the spaces above.

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3.4				
		Inde		
				生活的。 电视频系统 古斯 滚船子
			지수는 친구는 아주는 방송에 있는 것이 좋아. 이렇게 말했다.	
7. 8		GRID		THE RAND
¢.		Bto		
1	Actuator, Governor	A10, A12, A14, B2, B4, B6	Tight Indiator	E12. F2. F4, F6, F8
	Altornator Ammeter - AC	F2, F4, F6, F8	I fne. fuel - Inconing	
544 1	Annotor - DC	-E10, E12, E14	tine, Fuel - Return	
	AMMOLOT OU		i Hotor, Frequency	
	Bell, End			F2, F4, F6, F8 2, E14, F2, F4, F8, F8
	Board, ByPass	D12, D14		
	Board, Cyle Cranker	E14 E14	Module, Indicator, Fault	E12
	Board, Engine Monitor	E12, E14	Muffler. Exhaust	06, D8
	Board, Engine Shutdown		endalandar Birti a Bharar "I dar-)aarta bidan 24an ang ang	
	Board, Magnetic Sensor	£12, E14	Panel, Housing - Front	B12, B14
	Board, Over Speed Sensor		Parte, Replacement - Engine	AS
÷	Board, Over Under Voltage	N 😪 E12 E14	Pick Up, Magnetic) B10, E4, E6
3 ¹	Board, Relay Assembly	E12 E14	Point Assembly; Overspeed,	E3 E5
	Board, Remote Indicator	E14	•	
	Board, Standard Cranker	E14	Radiator	B12:B14
	Board, Start Disconnect	5 E12, Ê14	Regulator, Alternator AlD.	A12, A14, B2, B4, B6
4	Board, Terminal 💦 👘	-* <u>B</u> 8	Regulator, Voltage	F2, F4, F6, F8
. тр	Board, Time Delay	. E12, E14	Notor, Excliner	D12, D14, E6
	Breaker, Circuit		Roter, Generator	D12, D14
÷ .	Bus Bar Assembly	- Λ. Ε2		-
			Sender: Pressure - 011	88
	Cable, Battery	89 89		B8 5 B8
	Cap, Radiator	B12, B14, C4	Sender, Temperature	C12
	Chassis -	5244 A 77 A 63	Seperator, Fuel/Water Shield, Heat Solanoid, Sterr	DG DB
•	Cleaner: Air Contactor	C8, C10	Solenoid: Start	A6, E14
	Control, Engine	E10'E10 E14	Starter	89
	Control, Generator	F2, F4, F5, F8	Stator, Exciter	D12, D14
	Controller, Governor	B10	Staton, Senerator	D12, D14
			Cummaaaaa VAleesa	E7. E8
	Disk, Drive	D12, D14	Switch, Level - Coolant	C5 ·
			Switch, Over Speed	E3
-	Elbow, Exhaust	B9	Switch, Pressure - Oil	BB -
1	Element, Cleaner, Air	A8	Switch, Selector	E12, E14, /
	Element, Fuel/Water Separ	nathr C12		B8, B9
	Element, Lube Oil Filter	GH	(1) A set of a set	
· .			Table, Data - Electrical.	* A5
	Fan, Cooling	B12. B14	Table, Data - Set	A5
	Filter, Voltage Regulator	- F13, F14	Tachometer	E12, E14
		ati a ai	Tang, Drive - Techometer	88
	Gauge, Pressure - Fuel	C13	Tank, Expansion	C14, D2
	Gauge, Pressure - Oil	E10, E12,"E14 E10 E10 E14	Tank, Fuel - Day Tank, Standpipe	C14, D2 C2
	Gauge, Temperature Genérator	CIU, EI2, E14	- Lank, Stanopipe - Throttle, Vernier	C6
	Governor, Electric	B10	- Unrottie, Vennier - Transducer, Watt	F12
	Guard, Belt	A10, A12, A14, B2, B4, B6	Transformer, Current	FD
	Guard, Fan	B12, B14		and a second
	nuernus quers Nafrige à Subi£i	ر 1 ته فسر عب	Valve, Control - Temperature	C2, C4
	Harness, Engine:		Walve, Drain	B 8
	Heater, Control	G5	Valve, Float	D2
	Heater, Generator	ED.	Valve, Globe	C2. C4
•	Heater; Water	C8, C10	Valve, Solenold	C2. C4
	Housing, Control 200	• F10	Voltmeter	E12, F2, F4, F6
	Housing, Set 🔬 🎾 📜	5 D10		
		9	Wathmeter	F12
	Indicator, Service, Air	× A8	Wheel Sanaor - Overspeed	E4, E5
	Introduction	A5		

. Power Generation

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Introduction

to the Standard Sets Listed below. 1085 81 Manual applies arranged is groups of related items, and each part or essembly is identified by a Reference Number. All parts illustrated are typical, and unless otherwise mentioned in the description column the parts are interchangeable between models.

These typical illustrations are subject to change and reflect only the latest replace-ment parts arrangement. The Right and Left sides of the Bet are determined by FACING the FRONT of the Set (Engine End)

Set Data Table

4	MODEL IDEN AFICATION	RATIND	RON RATING BATTERY VOLTAGE	A.
	290.0 DFN - */ # 8 350.0 DFN - */ # 8	290,000 NATTS 350;000 NATTS	1500 RPM 24 VDC 1800 RPM 24 VDC	¥.,

Electrical Data Table

*VOLTAGE CODE	νοιτς	HERTZ	WIRE	PHASE	NOTES
5D (5D) 7 9X	120/240 240/480 220/380 347/600	60 - 60 - 60 - 60 - 60	4	3 3 3 3 3	
17	120/208 127/220 139/240 240/416 254/440 277/480	60 80 60 60 60 60	12 12 12 12 12 12 12	3 3 3 3 3 3 3 3 3	
517	110/190 115/200 120/208 127/220 220/380 230/400 240/416 254/440	50 50 50 50 50 50 50 50	12 12 12 12 12 12 12 12 12 12 12	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	÷

Voltage Codes follow Model Letter designations.

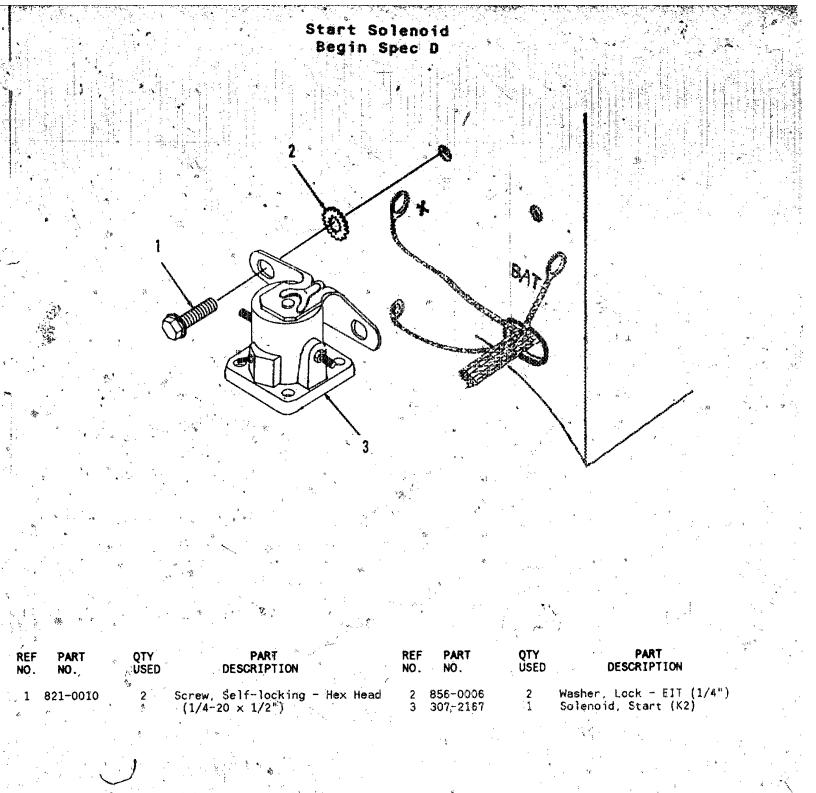
Specification Number: Number 1 is Standard, all others indicate variations. Spenification Letter: Letter advances (A to B, B to C, etc) with

major manufacturing changes. The Stators are Reconnectible.

iens-audr

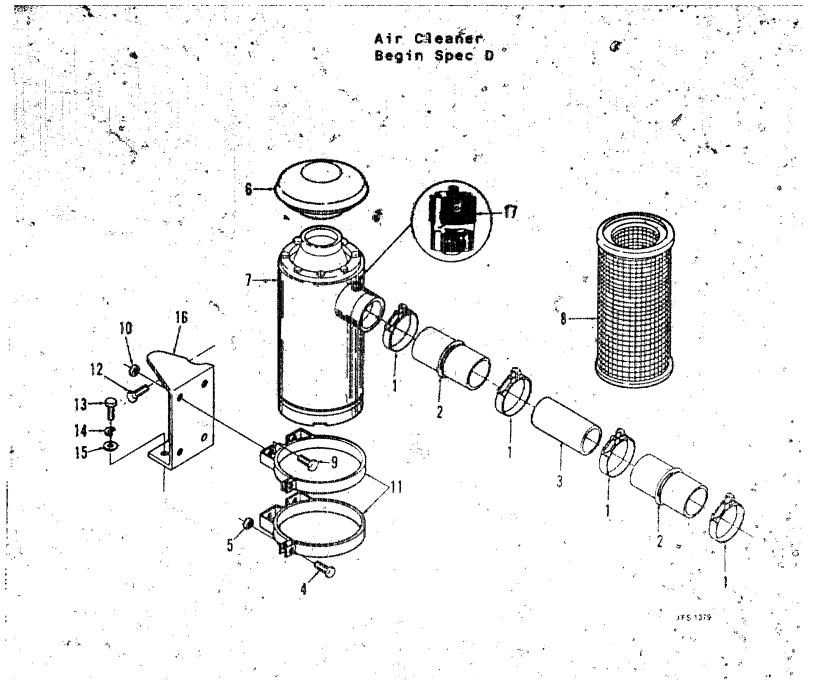
Engine Replacement Parts

Engine replacement parts must be ordered from the Engine Manufacturer, except those ified or added by Onan. When ordering engine parts, refer to the Engine Manufact-The Numeplate and supply the Nodel, Specification, Serial Numbers and other available A 1 1 information. Refer to the Engine Manufacturar's Manuals for your nearest authorized Parts Distributor; or contact the Onan Distributor from whom you purchased tis set. in ordering the replacement parts.



2 A



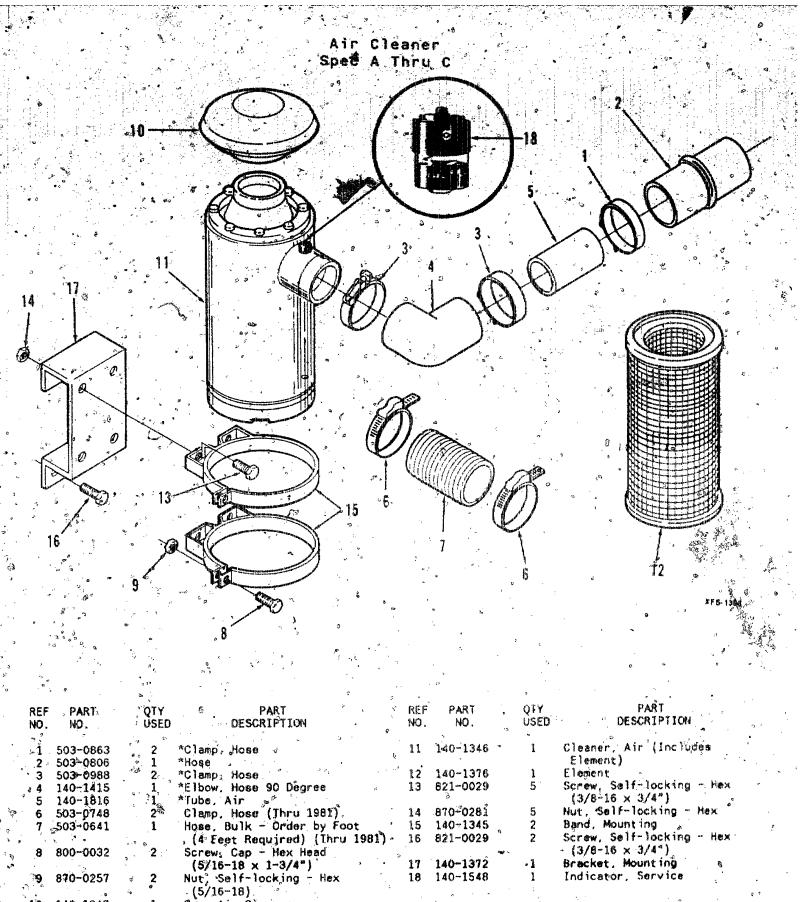


REF NCI.		QTY USED	PART DESCRIPTION		REF NO.	PART NO.	QTY USED	PART DESCRIPTION
. 1	503-0863	2	Clamp, Hose	×.	9	821-0029	·	Screw, Self-locking - Hex
2	503-0006	r 1	House a	1 . A		a series and		(3/8-16 x 3/4")
3	140-1578	1	Tubo		10	870-0281	4	Nut, Self-locking - Hex
4	800-0032	2	Screw, Cep - Hex Head			, ~		(3/8-16)4
Ĩ.			(5/16-18 × 1-3/4")		11	140-1345	2	Band, Mounting
5	870-0257	5.	Nut, Self-locking - Hex		12	821-0029	2	Screw, Self-locking - Hax (3/8-16 x 3/4")
6	140-1347	1	(5/16-18) Gap, Air Cleaner		13	800-0071	. 2	Screw, Cap - Hex Head
. 7	140-1346	1.	Cleaner, Air (Includes	'	•			. (7/16-14 × 1*)
		-1- -	(Element)		14	850-0055	~ 2	Washer, Lock - Spring (7/16")
. 8.	140-1376	- 1	Element		.15	526-0032	2	Woober, Flat (7/16*)
			· •	•	16	140-1822	1 .	Bracket, Mounting
`.	· •	u iti Maria Raja		• •	17	140-1548	_ 1 [`]	Indicator, Service 200

Power Generation

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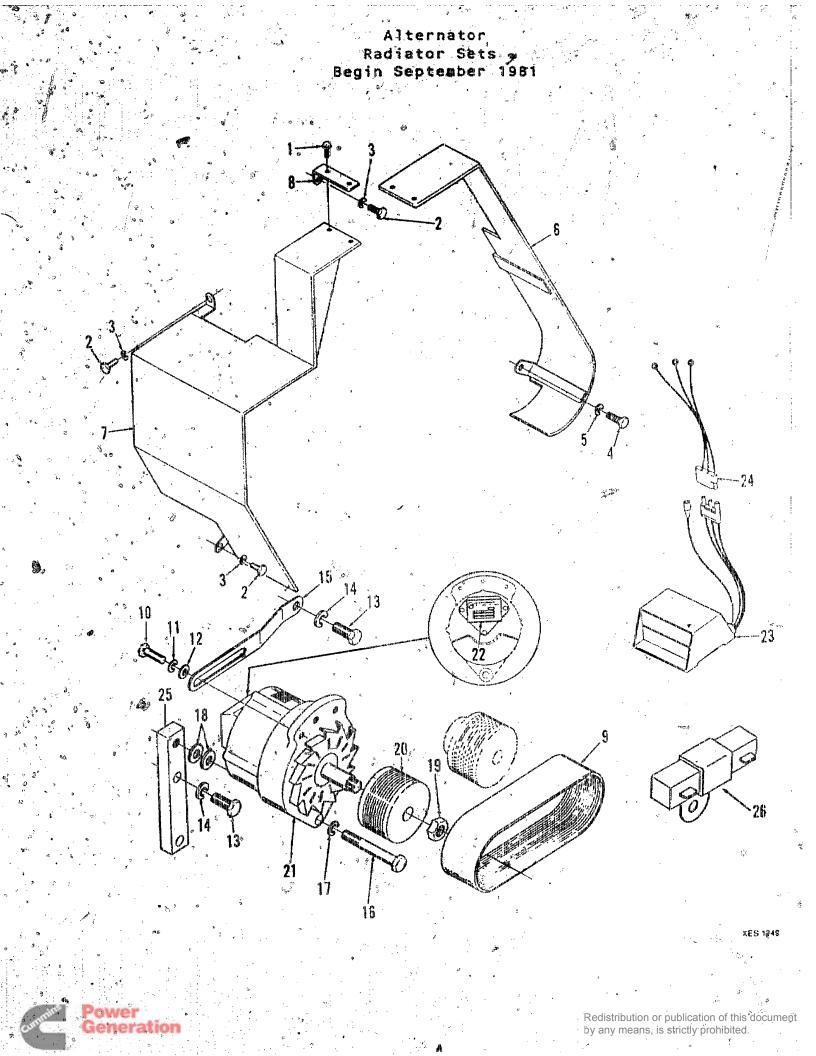


Cap, Air Cleaner

- Used Begin 1982; may be used on sets built, prior to 1982 in lieu of items 6 and 7.



10 140-1347



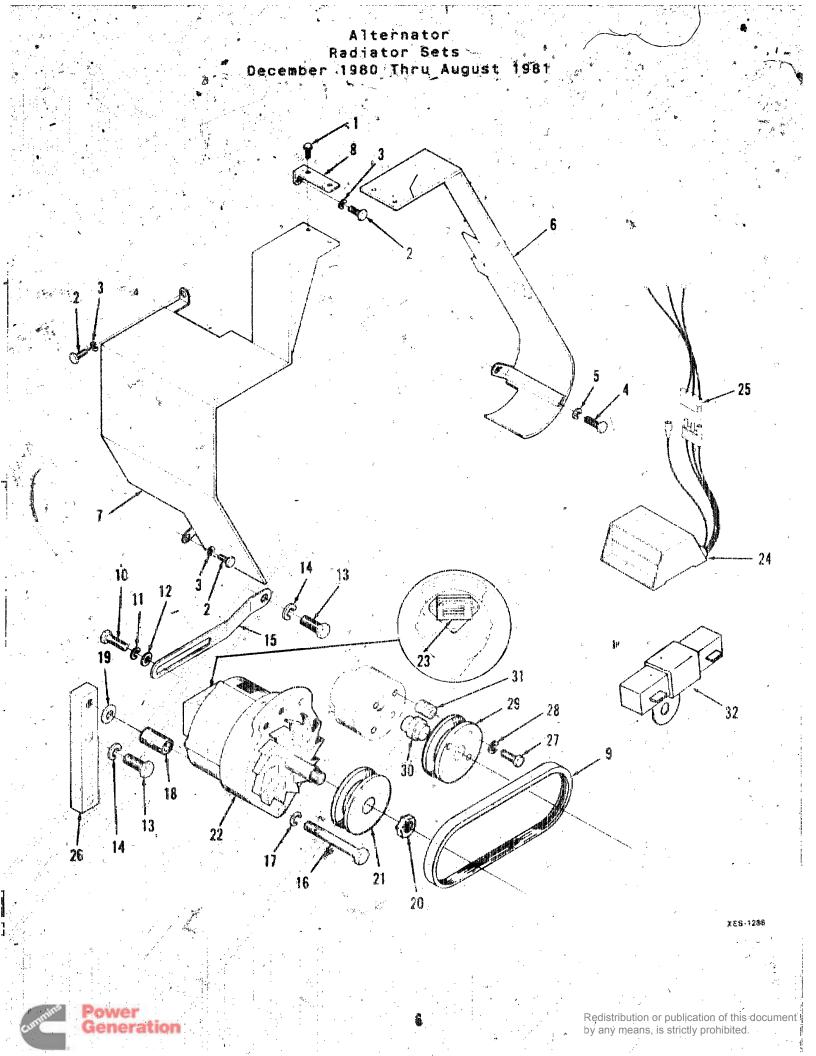
Alternator Radiator Sets Begin September 1981

	REF NO.	(1) (1) (1) (1) (1)	QTY . USED	PART DESCRIPTION	REF NO.	PART NO.	OTY	PART Description,
	1	821-0018	2	Screw, Self-locking, - Hex Head (1/4-20 x 5/8")	15 16	191°-0101 800-0100	1 1	Bracket, Adjusting Screw, Cap - Hex Head
-	2	800-0048/	3	Screw, Cap - Hex Head	1.7			$(1/2-13 \times 3-1/2^{*})$
1	3	850-0050		(3/6-16 x 3/4") Washer, Lock - Spring (3/8#)		850-0060 526-0219	2	Washer, Lock - Spring (1/2") Washer, Flat (1/2")
	4	800-0069	e2	Screw, Cap - Hex Head	19		1 -	Nut, Hex (5/8-18)
	1			· (7/16-14 × 3/4")	20		1	Pulley
	5	850-0055	2	Washer, Lock - Spring (7/16")	21	5 : NA 0.5	4	Alternator
	0 7	191-1517 130-1812	1,	Guand, Belt Guard, Belt		111-0688 191-1258	1	Standard
	8	191-1151	1	Bracket, Mounting - Belt Guard :	22	191-0733	1	Regulator, Voltage (Used with
		511-0119	1	Belt, Drive - Multi Gnoove,	a construction of the second sec		•	Standaro Alternator)
	10	821-0015	1	Screw, Self-locking - Hex Head (5/15-18 × 3/4")	23	191-0548	1, ,	Regulator, Voltage (Used with Marine Alternator)
-	11	850-0045	1	Washer, Lock - Spring (5/16")	24	191-0681	1	Cable, Electrical (Used with
÷	12		1 .	Washer, Flat (5%16°)		۰.	61	Marine Alternator)
Ч. – <u>с</u>	13	800-0090	3	«Screw, Cap - Hex Head		191-1376	1	Bracket, Mounting 💲 🖉 🛒 👘
÷ .	14	850-0060	3	(1/2-13 x 1") Washer. Lock - Spling (1/2")	26	·191-0550	1	Remistor (Used with Marine Alternator)

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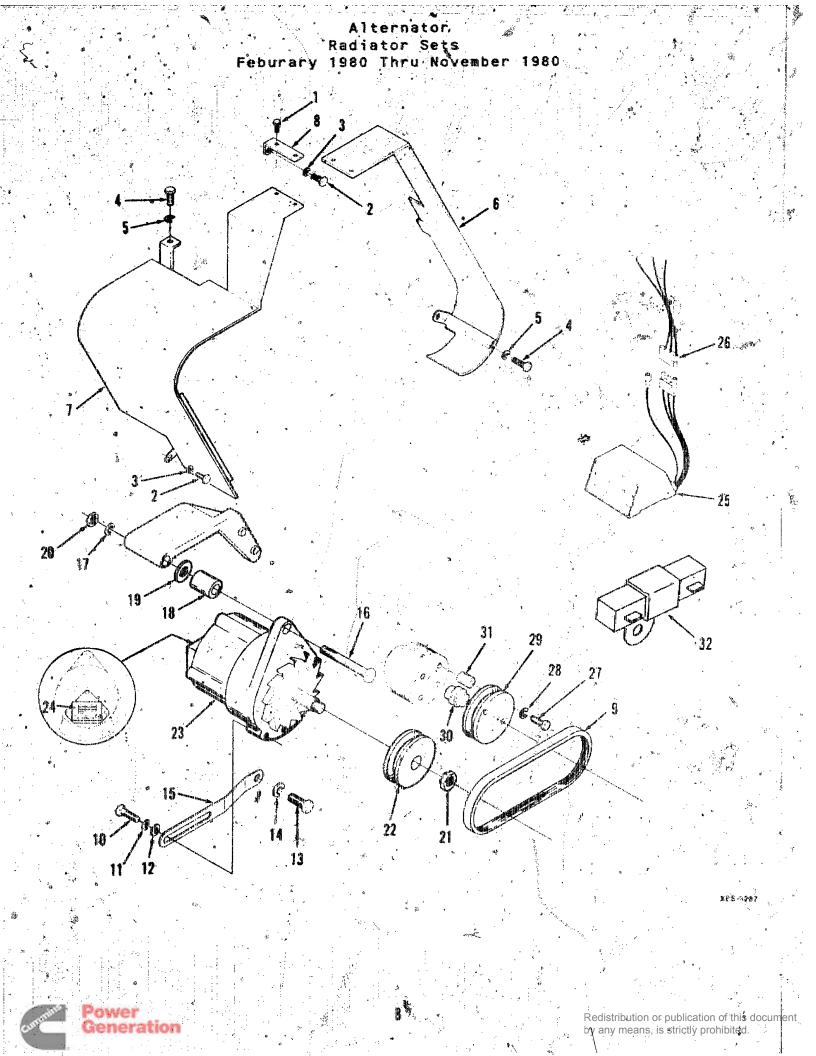




Alternator Radiator Sets December 1980 Thru August 1981.

	¢						Ψų,	
		PART	QTY USED	PART DESCRIPTION	REF IO	PART NO.	OTY USED	PART DESCRIPTION
	1	821-0018	2	Screw, Self-locking - Hex Head			1	Spacer, Sleeve
-				(1/4-20 x 5/8")		526-0219	2	Wesher, Flat (1/2")
	2	800~0048	3			868-0007	1	Nut, Hex (5/8-18)
		850.0050	3 ***	(3/6-16 × 3/4")	21 8	191-0781	1	Pul*ley
•	3	850-0050	. C	Washer, Lock - Spring (3/8")				Alternator
	4	800-0069	2	Screw, Cap - Hex Nead (7/16-14 × 3/4")	. e	191-0688	tat i	Standard
	E	850-0055		(7/16-14 × 3/4")	• •	19171208		Marine *
		191-1149		Washer, Lock - Sprving (7/16") - (Guard, Belt	63	.91-0133	, 1 , 1	Regulator, Voltage (Used with
,	ช 7	130-1812	1		ъÅ.	191-0548		Standard Alternator) Regulator, Voltage (Used with
	ŝ	191-1151	1	BracketMounting - Belt Guard	см ::	191-00%0 -	1.01	Marine Alternator)
		511-0111	1		25	191-0681		Cable, Electrical (Used with
	· · ·	821-0016	1	Screw, Self-locking - Hex Head		541 0002 ···		Marine Alternator)
	÷.	002 0020	•	(5/16-18 × 3/4")	วต์	191-1376	9 J 1	Bracket, Mounting
1	1 -	850-0045	1			800-0069	12	Screw, Cap
		526-0022	î	Washer, Flat (5/16")				(7/16-3/4")
		800-0090	3		28	850-0055	2	washer: Lock + Spring (7/16")
	1	I				512-0063	1	Pulley
1	4	850-0060	3			191-1164		Adapter, Pulley
1	5 ·	191-1377	1		31	191-1165	2 0	Spacer, Sleeve
1	6	800-0100	1		32	191-0550	1_{2}^{i}	Resistor (Used with
	•			(1/2-13 _* × 3-1/2") *			÷.	Marine Alternator)
11	7 - 1	850-0060	1	Washer, Lock - Spring (1/2")	• •	·	j.	. · · · · · · · · · · · · · · · · · · ·
				•	N			

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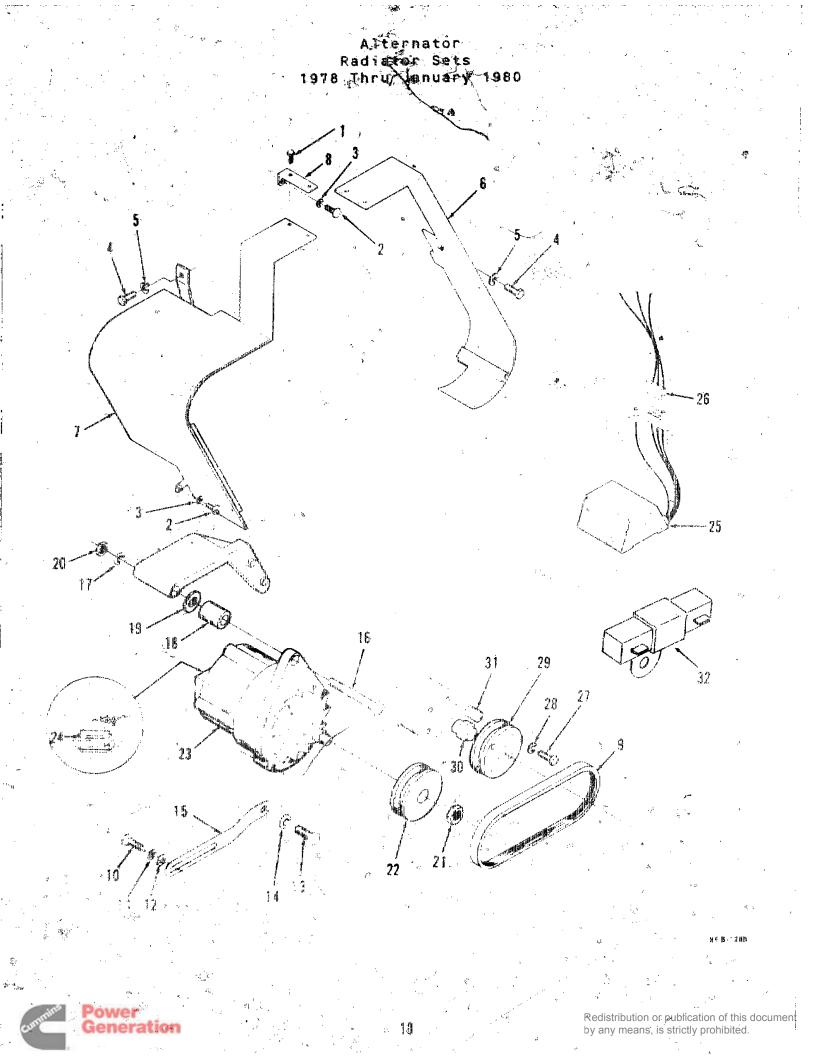


Alternator Radiator Sets Feburary 1980 Thru November 1980

3

	REP	PART	.	QTY	PART	REF	PART	QTY	PART
• •	NO.	NO.	45	USED	DESCRIPTION	NO.		USED	DESCRIPTION
	1	821-0018	÷	<u>م</u>	Screw, Self-locking - Herenad	18	191-1153	1.	Spacer : Sleeve
					(1/4-20 × 5/8")	19		2	Washer, Flat (1/2")
· .	. 2	800-0048	, * *	.2	Scnew, Cap - Hex Head	20		_ 1	Nut, Hex (1/2-13)
		Q			(3/6-16 x 3/4")	21	868-0007		Nut, Hex (5/8-18)
. + ¹	3	850-0050		(2)	Washer, Lock - Spring (3/8")	22	191-0781	1	Pulley
	4	800-0069			Screw, Cap - Hex Head	23	. · ·	·	Alternator
	· ·	as i			(7/16-14 × 3/4")	1	19:0688	• <u>1</u>	Standard d
	5	850-0055	•	3	Washers Lock - Spring (716)		191-1258	1	Marine
	6	191-1497		. 1	Guard, Belt	24	191-0733	e 1 1	Regulator, Voltage (Used with
	7	191-1518		1	Guard, Bel;				Standard. Alternator)
	• 8	191-1151		1	Bracket. Mounting Belt Guard	25	191-0548	1	Regulator, Voltage (Used with
	9	511-0075		1 🖉	Belt, Drive & Wilth Groove				Marine Alternator)
٠	10	821-0016		1	Screw, Selfglocking - Hex Head	26	191-0681	· 1 ·	Cable, Electrical (Used with
,					(5/16-18 🔊 3/4")				Marine Alternator)
	11	850-0045	<i>.</i> .	1	Washer, Lock - Spring, (5/16")	177	800-0069	a star	Screw, Cap'- Hex Head
				1.	Washer, Flat (5/16°) 👘 🦉 👘		·		(7/16-3/4")
	13 🧃	800-0090	. 3	3	Screw, Cap - Hex Head 👘 👘		850-0055		Washer, Lack - Spring (7/16")
~	ų.	\$\$°	110	۳.	(1/2-13 × 1")	29		1	Pulley
		850-0060		3	Washer, Lock - Spring 11/2	30		1	Adaoter, Pulley
	15	191-1377	•	1	v v		191-1165		Spacer Sleeve
	16	800-0100		1	Screw, Cap - Hex Head	32	191-0550	. 1	Resistor (Used with
	•	1	• • •	2	$(1/2-13 \times 3-1/2")$				Marine Alternator)
	17	850-0060		1	Washer, Lock - Spring (1/2~)				•
5					· · · ·				

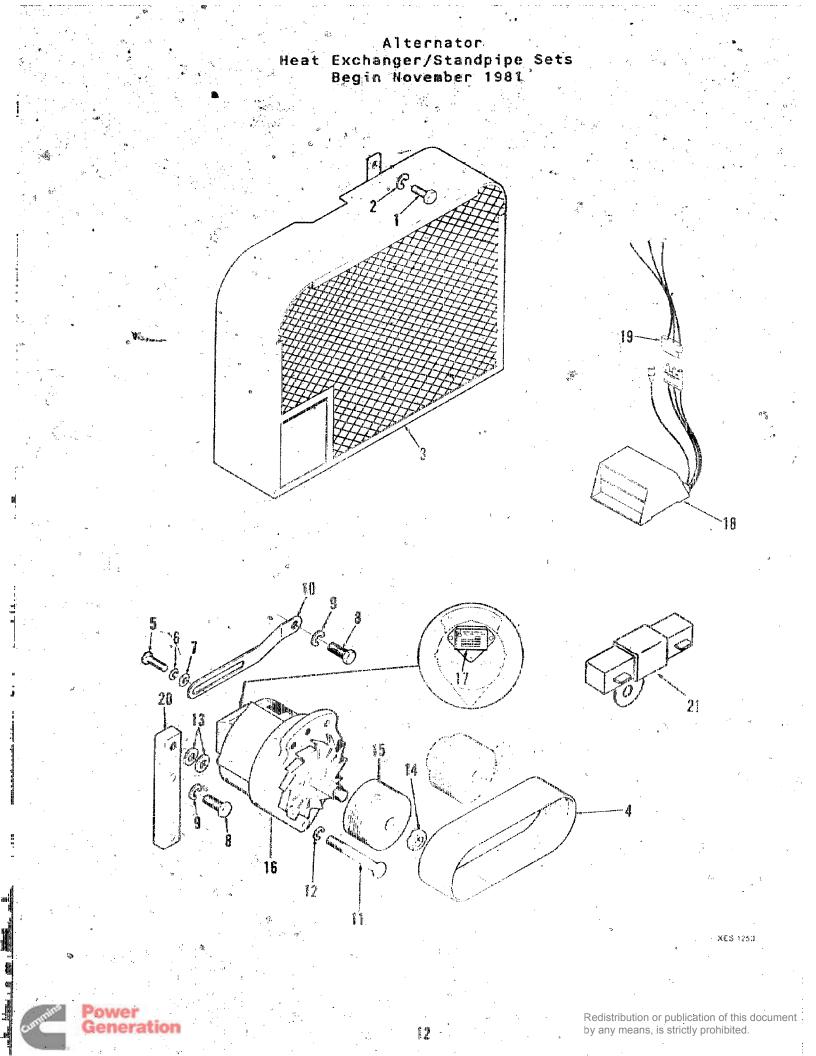
Generation



Alternator Radiator Sets 1978 Thru January 1980

				· .			
REF.	PART .NO.	QTY USED	PART DESCRIPTION	REF		QTY USED	PART DESCRIPTION
1	821-0018	2	Screw, Self-locking - Hex Head (1/4-20 x 5/8")		191-1153 526-0219	- 1 2	Spacer, Sleeve State Washer, Flat (1/2")
2	800-0048	2	Spewer, Cap - Hex Head	- 20		1	Nut, Hex (1/2-13)
	1		(3/6-16 × 3/4")	21	868-0007	1	Nut, Hex (5/8-18)
3	850-0050	2	Washer, Lock - Spring (3/8")	22	191-0781	1	Pullev
.4	800-0069	3	Screw, Cap - Hex Head	23			Alternator
			$(7/16 - 14 \times 3/4")$		191-0688	1	Standard
5	850-0055	3 * •	Washer, Lock - Spring (7/16")		191-1258	· 1	Marine
6	191-1149	1	Guard, Beit	24	191-0733	3	Regulator, Voltage (Used with
7	191-1150	1	Guard, Belt				Standard Alternator)
8	191-1151	1	Bracket, Mounting - Belt Guard	25	191-0548	. 1	Regulator, Voltage (Usec with
9	511-0075	1	Belt, Drive - Multi Groove			-	Marine Alternator)
10	821-0016	1	Screw, Self-locking - Hex Head (5/16-18 x 3/4")	26	191-0681	1 :	Cable, Electrical (Jsed with Marine Alternator)
11	850-0045	1 .	Washer, Lock - Spring (5/16")	27	800-0069	2	Screw, Cap - Hex Wead
12	526-0022	· 1	Washer, Flat (5/16")			1997 - 1997 -	(7/16-3/4/)
- 13	000-0090	3	Screw, Cap - Hex Head	28	850-0055	2	Washer, Lock - Spring [7/16]]
		7	$(1/2-13 \times 1")$	29	512-0053	6.5 6 2	Pulley
14	850-0060	3	Washer. Lock - Spring (1/2")	30	191-1164	· 1	Adaptér, Eulley 👳
15	191-1377	1	Bracket, Adjusting	31	191-1165	2	Spacer Sleeve
16	800-0100	1	Screw, Cap - Hex Head (1/2-13 x 3-1/2")	32	191-0550	1	Resistor (Used with Marine Alternator)
17	850-0060	1	Washer, Lock - Spring (1/2")				· · · · · · · · · ·

Generation



Alternator Heat Exchanger/Standpipe Sets Begin November 1981 3 ni. Na shekere

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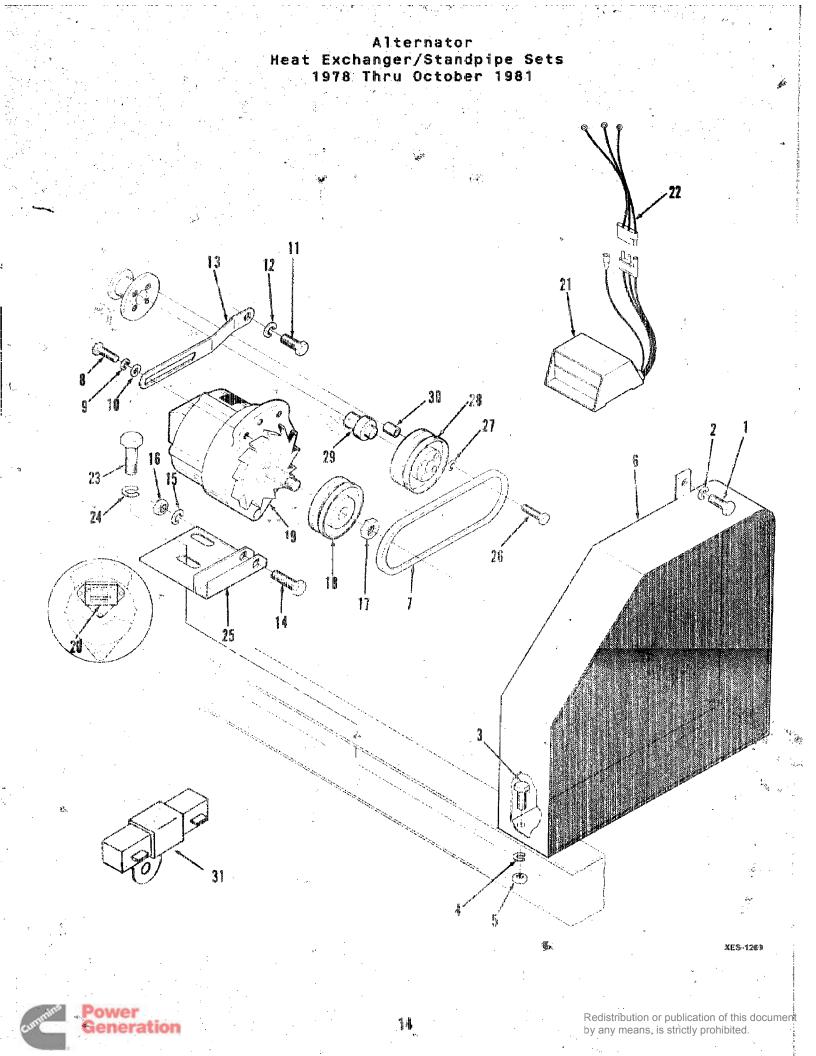
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.	QTY USED	PART DESCRIPTION
1	800-0069	2	Screw, Cap - Hex Head		526-0219	2	Washer, Flat (1/2")
			$(7/16-14 \times 3/4")$	14	868-0007	1	Nut, Hex (5/8-18)
2	850-0055	2	Washer; Lock - Spring (7/16")		191-1391	· 1	Pulley
. 3	130-1118	1	Guard, Belt	16			Alternator
÷ 4	511-0119	1	Belt, Drive - Multi Groove	1.1	191-0688	1	Standard
5	821-0016	· 1 ··	Screw, Self-locking - Hex Head	· · ·	191-1258	1	Marine
			(5/16-18 × 3/4")	17	191-0733	1	Regulator, Voltage (Used with
. 6	850-0045	1	Wesher, Lock - Spring (5/16")				Standard Alternator)
7	526-0022	1	Washer, Flat (5/16")	18	191-0548	1	Regulator Voltage (Used with
8	000-008	3.	Screw, Cap - Hex Head				Marine Alternator)
			$(1/2-13 \times 1")$	19	191-0681	. 1	Cable, Electrical (Used with
9	850-0060	З	Washer, Lock - Spring (1/2")				Marine Alternator)
10	191-0101	1	Bracket, Adjusting	20	191-1376	1	Bracket, Mounting
11	800-0100	1	Screw, Cap - Hex Head		191-0550	1	Resistor (Used with
			(1/2-13 × 3-1/2")	· · ·			Marine Alternator)
12	850-0060	1	Washer, Lock - Spring (1/2")				
	2	£					

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Alternator Heat Exchanger/Standpipe Sets 1978 Thru October 1981

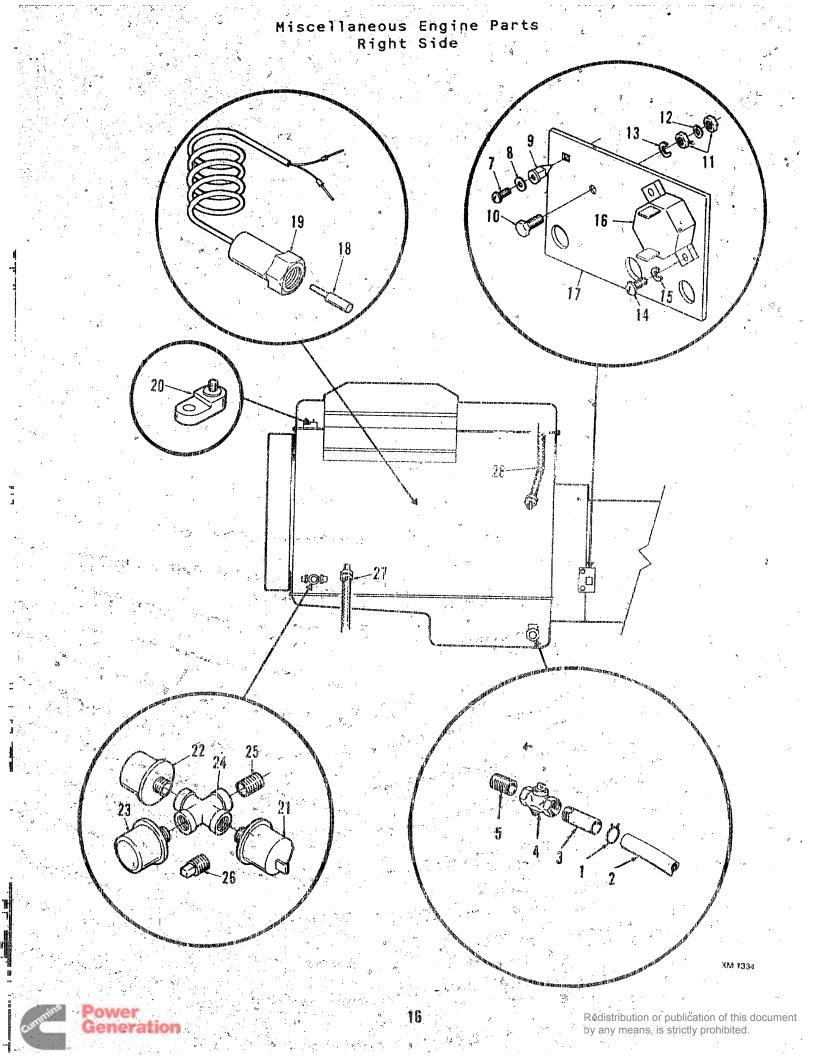
REF NO.		QTY USED	PART DESCRIPTION		EF O.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0069	2	Screw, Cap - Hex Head (7/16-14 x 3/4")	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5 9	191-0781	1	Pulley Alternator
2	850-0055	2	Washer, Lock - Spring (-	191-0688	1	Standard
_3	800-0028	1	Screw, Cap - Hex Head			191-1258	î	Marine
			(5/16-18 × 1")			191-0733	ī	Regulator, Voltage (Used with
4	850-0045	1	Washer, Lock - Spring ((5/16")	- ,-		• · ·	Standard Alternator)
5	862-0015	1	Nut, hex (5/16-18)		1	191-0548	1	Regulator, Voltage (Used with
6	*	1	Guard, Belt					Marine Alternator)
7	511-0075	1	Belt, Drive	. 2	2	191-0681	1	Cable, Electrical (Used with
8	821-0016	1	Screw, Self-locking - H	lex Head				Marine Alternator)
			(5/16-18 × 3/4".)		3	800-0132	2	Screw, Cap - Hex Head
9	850-0045	1	Washer, Lock - Spring ((5/16")				$(5/8-11 \times 1-1/2")$
10	526-0022	1	Washer, Flat (5/16")		4	850~0070	2	Washer, Lock - Spring (5/8")
11	800-0090	3	Screw, Cap - Hex Head	2	5	191-0858	· 1	Bracket, Mounting
			$(1/2 - 13 \times 1^{\circ})$	2	6	800-0069	2	Screw, Cap - Hex Head
12	850-0060	З	Washer. Lock - Spring ([1/2"]				$(7/16-14 \times 3/4")$
13	191-0101	1	Bracket, Adjusting	. 2	7	850-0055	. 2	Washer, Lock - Spring (7/16")
14	800-0094	1	Screw, Cap - Hex Head	2	8	512-0063	1	Pulley
	1.14		$(1/2-13 \times 2")$	2	9	191-1164	1	Adapter, Pulley
15	850-0060	1	Washer, Lock - Spring ((1/2") 30	0	191-1165	2	Spacer, Sleeve
16	862-0016	1	Nut, Hex (1/2-13)	3	1	191-0550	1	Resistor (Used with
17	868-0007	1	Nut, Hex (5/8-18)					Marine Alternator)

📲 * - Obsolete, No Longer Available.



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Generation

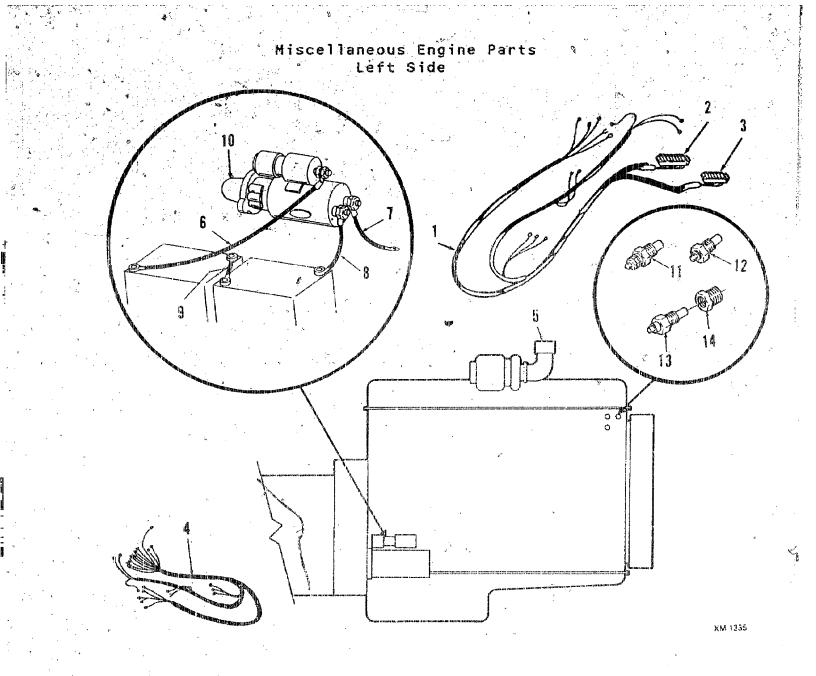


Miscellaneous Engine Parts Right Side

	ref No		QTY USED		8. F	REF VO.	PART NO.	QT) USE	ED DESCRIPTION
	1	503-0197	1.	Clamp, Loop	<u>م</u>	15	850-0030	2	*Washer, Lock - Spring (#10)
	2	503-0888	S 1 1	- Hose		16	320-0240	··· •1	*Breaker, Circuit
	3	505-0185	1	Nipple, Pipe, Half		17	332~1382	1	*Board; Terminal
	- 4	504-0011	1	Valve		18	302-0753	<u>,</u> "1	Tang, Drive - Tachometer
·	5	505-0100	1	Nipple, Pipe - Close.		19	802-0750	, 1 .	, Sender - Tachometer
	6	332-1383	1	Terminal Assembly (Includes	. i i	20	309-0289	1	Switch, Temperature - Low
*		ي الم	ta a ser a	Pares Marked*)	<u>م</u>				Engine Temperature (S4)
J•	• 7 •	809-0035	1 -	*Screw, Tapping - Round Head (#8 x 3/4")		21	309-0272	1	Switch, Pressure - Oil - Alarm
	- 8	508-0015	- 1	*Washer, Insulating	, i	22	193-0244	, 1	Sender, Pressure - Oil (E1)
	9	870-0196	<u>, 1</u>	*Nut, Insulated	1	23	309-0169	1	Switch, Pressure - 011 -
	· 10	8000005	1	*Screw, Cap 🕂 Hex Kead .	, .		dis	-	Shutdown (S1)
				$(1/4-20 \times 3/4")$		24	505-0783	1	Cross, Pipe
	11 (£862-0001	2	*Nut, Hex (1/4-20)	م او	25	505-0104	1	Nipple, Pipe - Člose
•	12	^{**} 856-0006 °	۲. s]	*Washer, Lock - EIT (1/4")		26	505-0057	- 1	Plug, Pipe - Square Head
	13	850-0040	1	*Washer, Lock - Spring (1/4")		27	501-0216	° 1.	Line, Fuel - Return
	14	813-0103	2	*Screw, Machine - Round Head (#10-32 x 3/4")	à	28	501-20084	1	Line, Fuel - Incoming

- Parts included in Circuit Breaker Assembly.

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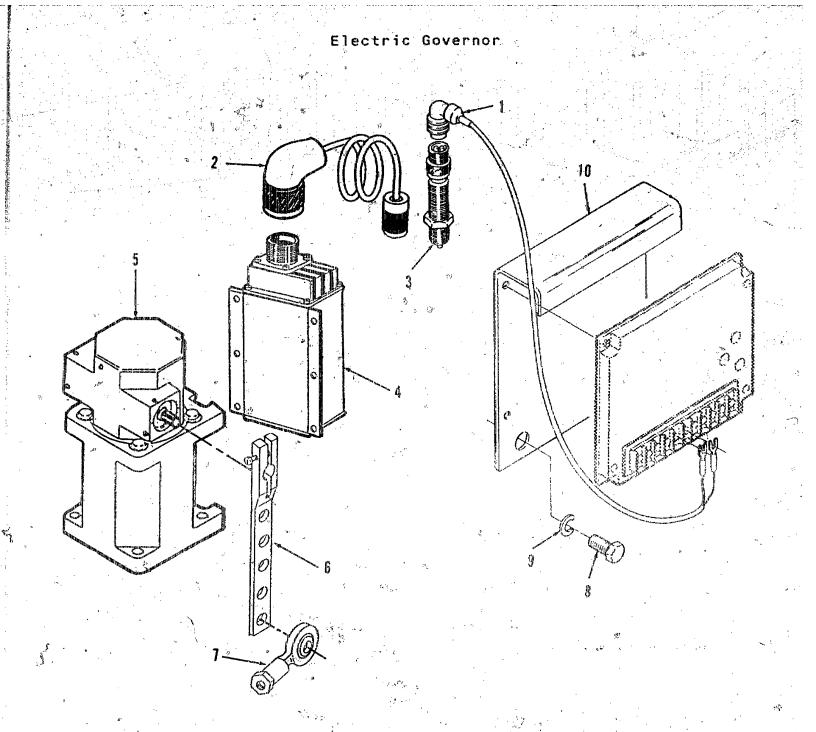


ref No.	PART NO.	QTY USED	PART	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	338-2069	1	Harness, Wiring - Begin Spec D	В	416-0639	1	Cable, Battery - Negative
	and the second		(Includes Connectors)	9	416-0473	1	Cable, Electrical - Jumper
2	323-1304	1	Housing, Connector - 6 Place	10	191-1588	1	Starter
	323-1200	6	Contact, Pin	1 1	193-0247	1	Sender, Temperature - Engine 🍈
3	323-1306	1	Housing, Connector - 8 Place				Coolant (E2)
	323-1200	8	Contact, Pin	12	309-0178	1	Switch, Thermostatic - Coolant
4	338-0957	1	Harness, Wiring - Spec A Thru C		÷ .		Temperature - Alarm (S2)
5	155-1035	1	Elbow, Exhaust	13	309-0179	1	Switch, Thermostatic - Coolant
6	416-0636	1	Cable, Battery - Positive				Temperature - Shutdown (S6)
7	416-0632	. 1	Cable, Electrical - Ground	14	505-0117	2 `,	Bushing, Roducer - Flush



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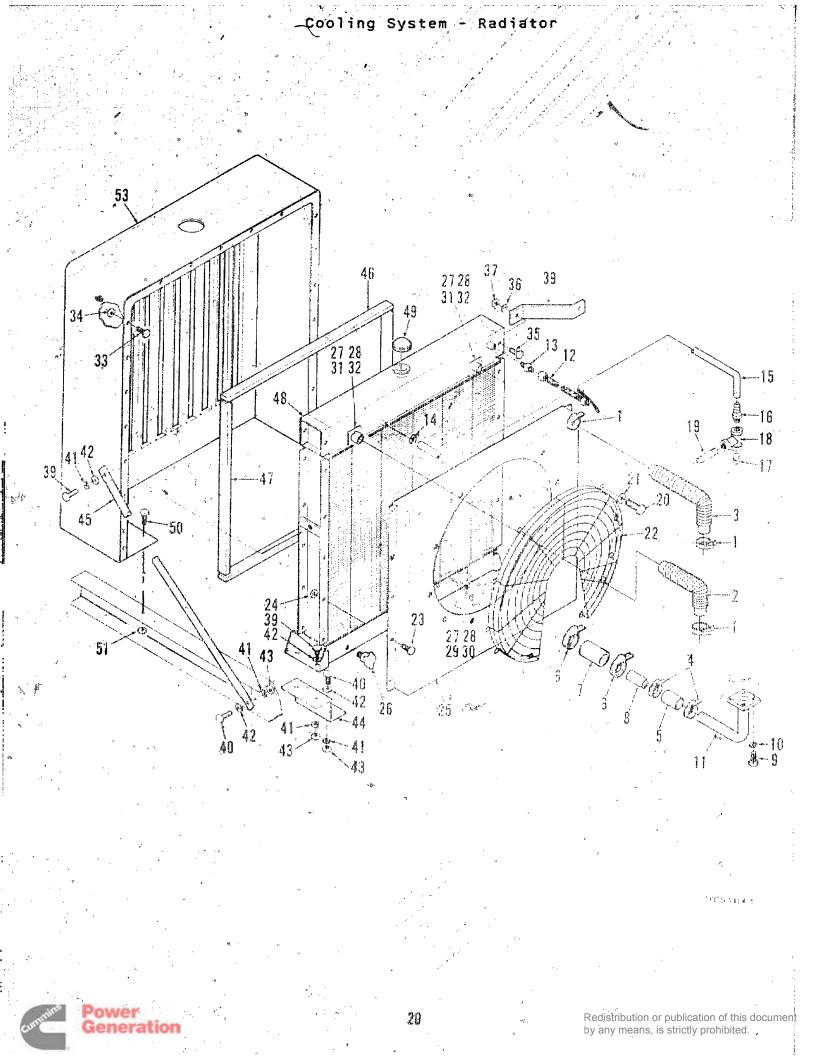
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REF NO		QTY USED	PART		REF NO.	PART NO 1	•	QTY USED		PART	· · ·
1	338-1777	1. Harne	ess, Wiring - Stand	and 👇	6	151-0441		1	Lever		n en
			in Spec D	-	7	151-0443	•	2 -	Joint,	Ball	
. 2	338-1086		ess, Wiring = Used troller #151-0399*	With	. 8	800-0151	·	2		Cap - Hex Hea lo"x 1")	n ç l
3	151-0411	1 Picku	up, Magnetic 👘	· · ·	9	850-0079		2	Wesher,	Lock - Sprin	ng (3/4")
4	151-0399		roller	·	10	150-2007		1		; Mounting -	
5	151-0419	1 Actua	ator							Spec D	

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Power Generation



Cooling System - Radiator

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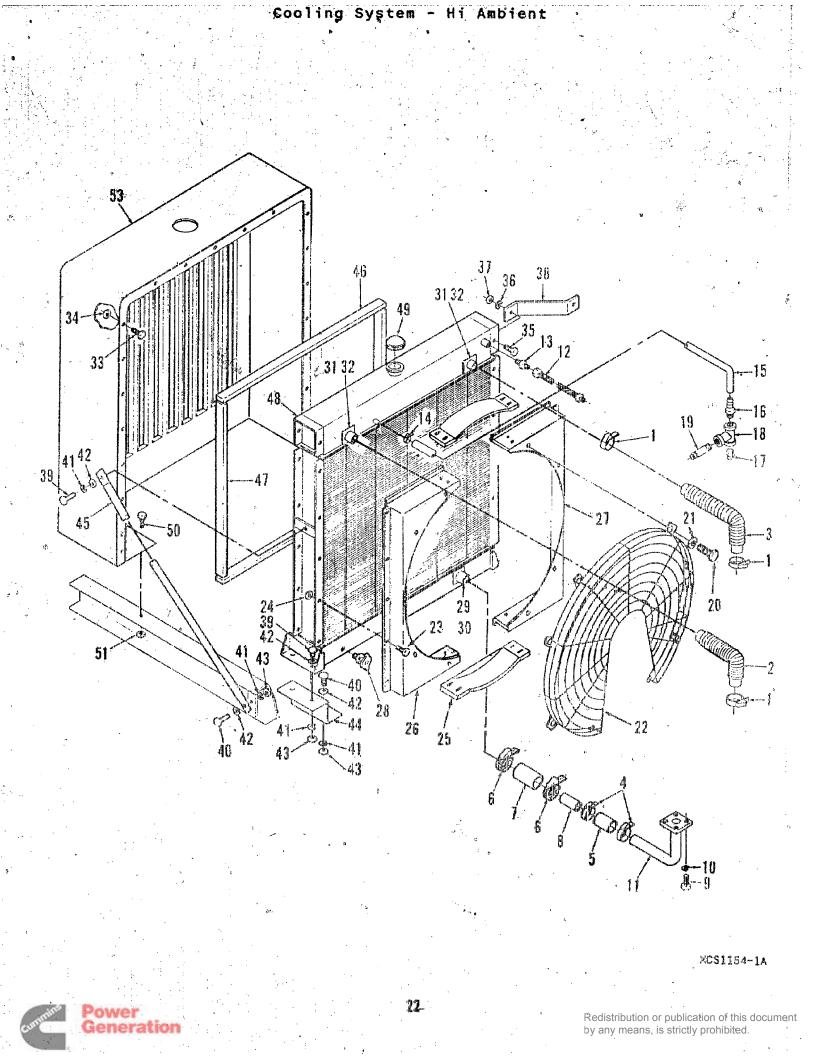
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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO;	QTY USED	PART DESCRIPTION
1	503-0354	4	Clamp, Hose	30	130-1193	1	Gasket
2	503-0629	1	Hose			2	Adapter, Inlet
3	503-0616	1	Hose	32 *	130-1194	2	Gasket
4	503-0612	2	Clamp, Hose	33	821-0016	6	Screw, Self-locking - Hex
5	503-0906	1	Hose	-			(5/16-18 × 3/4")
6	503-0612	2	Clamp, Hose	34	870-0257	6	Nut, Self-locking - Hex
···· · 7	503-1114	1 ′	Hose		**		(5/16-18)
8	130-1741	1	Tube	35	800-0090	2	Screw, Cap - Hex Head
9	800-0072	4	Screw, Cap - Hex Head				$(1/2-13 \times 1^{\circ})$
			$(7/16-14 \times 1-1/4^{\circ})$	36	850-0060	2	Washer, Lock - Spring (1/2")
10	850~0055	4	Washer, Look - Spring (7/16")	37	862~0016	2	Nut, Hex (1/2-13)
11	-130-1030	1	Elbow, Tube	38	130-0996	. 2	Brace, Support
12	501-0087	1	Line, Fuel	39	800-0133	6	Screw, Cap - Hex Head
13	502-0184	1	Connector				$(5/8-11 \times 1-3/4")$
14	503-0429	2	Clamp, Hose	40	800-0131	6	Screw, Cap - Hex Head,
15	503-0924	1	Hose				$(5/8-11 \times 1-1/4")$
16	505-0759	1	Adapter	41	850-0070	12	Washer, Lock - Spring (5/8")
17	505-0140	1	Plug, Pipe	42	526-0112	24	
18	505-0304	1	Tee, Pipe	43	862-0007	12	Nut, Hex (5/8-11)
19	505-0087	1	Nipple, Pipe	44	130-1004	2	Bracket, Support
20	921-0018	8	Screw, Self-locking - Hex	45	130-0994	2 <	Brace, Support
			$(1/4-20 \times 5/8^{\circ})$	46	130-1007	2	Strip, Foam
21	526-0018	8	Washer, Flat (1/4")	47	130-1006	2	Strip, Foam
22	130-1013	1	Guard, Fan	48	130-1011	1	Radiator (Include Cap)
23	821-0029	10	Screw, Self-locking - Hex 👘 👘	49	130-0449		Can Radiator
			(3/8-16 × 3/4")	50	800-0030	4 · ·	Schew, Cap - Mex Head
24	870-0281	10	Nut, Self-locking - Hex"				$(5/16 - 18 \times 1 - 1/4)$
			(3/8-16)	51	870-0257	4	Nut Self-locking - Fex
25	130-1003	1	Shroud, Fan				(5/16-18)
26	504-0003	1	Cook, Drain 👘 👘	52			Bracker
27	800-0072	12	Screw: Cap - Hex Head		408-2236		Right Side 👘 🕺
			$(7/16-14 \times 1-1/4^{\circ})$		405-2237	1	Le∱t S∶de
28	850-0055	12	Washer, Lock - Spring (7/16)	53	405-2228]	Panel, Front
29	130-1001		Adapter, Outlet				* .

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Cooling System - Hi Ambient

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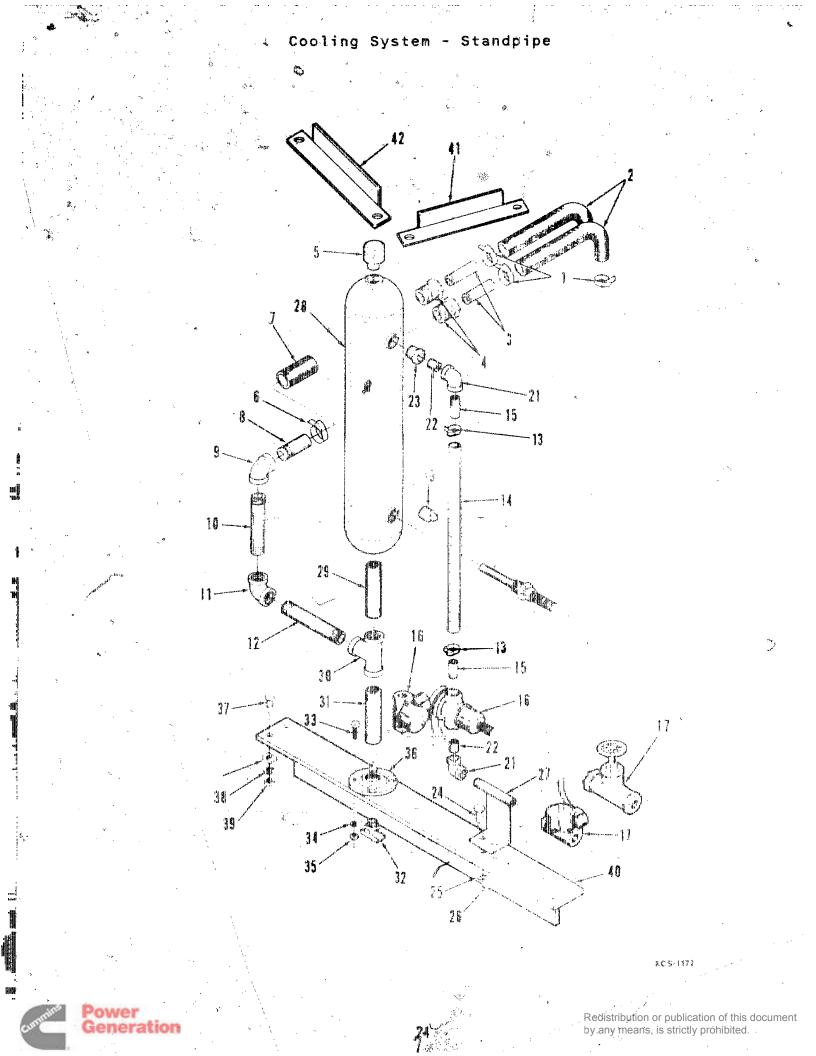
					1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		 	
REF	PART	QTY		PART	REF		QTY	
NO.	NO.	USED	C .	ESCRIPTION	NO.	NO. 🌯	USED	DESCRIPTION
1	503-0354	4	Clamp, H	lose	30	130-1193	1.1	Gasket
	503-0629	, ¹ , 1 , -	Hose			130-1002	2	Adapter, Inlet
3	503-0616	1	Hose	an 1888		800-0072	S	Screw (7/16-14 × 1-1/4")
-	503-0612	2 .	Clamp, H	lose	n . Se al	850-0055	8 - 3	Washer, Lock (7/16")
.5	503-0782	1	Hose		- 32	130-1194	2	Gasket
6	503-0612	2	Clamp;	lose	33	821-0016	- 6	Screw, Self-locking - Hex
1	503-1114		Hose				1	(5/16-18 × 3/4")
2 8	130-1741		Tube		34	870-0257	5	Nut, Self-locking - Hex
. 9	800-0072	4	Screw, (Cap - Hex Head	·. ·.	· · · · · · · · · · · · · · · · · · ·		(5/16-18)
- a			(7/16-1	$14 \times 1 - 1/4"$	35	000-0090	2	Screw, Cap - Hex Head
.10	850-0055	4		Lock - Spring (7/16	')		19	<pre>(1/2²¹13 × 1⁴)</pre>
	130-1030	1	Elbow.		36	850-0060	2	Washer, Lock - Spring $(1/2^{\circ})$
12	501-0087	1.	Line, Fu	uel 🔷	37	862-0016	2	Nut, Hex (1/2-13)
	502-0184	1	Connecto	or	38	130-0996	2	Brace, Support
14	503-0429	. 2	ິClamp, ł	lose .	. 39	800-0103	5	Screw, Cap - Hex Head
15	503-0924	1	Hcse	<u>^</u>		÷ ,		$(5/8-11 \times 1-3/4")$
16 g	505-0759	1.	Adapter	·	40	800-0131	6	Screw, Cap - Hex Head
17	505-0140	1	Plug, P	ipe 🧳			4	$(5/8-11 \times 1-1/4")$
; 18	505-0304	1	Tee, Pi	3 e *		860-0070	Ĩ2 ,	Washer, Lock - Spring (5/8")
19	505-0087	1	Nipple,			526-0112	24	Washer, Flat (5/8")
2,0	821-0018	8		Self-locking - Hex	43	862-0007	12	Nut- Hex (5/8-11)
• *			(1/4-20	$0 \times 5/8"$		130-1004	2	Bracket, Support
21	526-0018	8		Flat (1/4")	45	130-0994	2	Brace, Support
22	130-1347	1	Guard, I		. 48	130-1007	2	Strip, Foam
23	821-0029	10	Screw, S	Self-locking - Hex	47	130-1006	2	Strip, Foam
· ·				6 x 3/4")	48	130-2181	1 -	Radiator (Include Cap)
24%	870-0281	10		lf-locking - Hex	40	130-0449		Cap, Addiator
	9		(3/8-1)	6)	. þ0	1906-10030		Schew, Cap - Nex Héad 1(5/16-18 x 1-1/41)
25	130-1344	2	Bridge	vi Andre and andre balls b		and the second	~ .	Nut, Self-locking h day
	821-0016	8	Screw	(1/4-20 x 5/8")	51	876-02811	4	
•	526-0018	3		r. Flat (1/4°)		·. ·	۰.	(5/16~18)
	130-1346	1	Shreud,		52	and Jonaho		Bracket Richt Side
	-130-1345	1	Shroud,	7		408-2236 405-2237	÷ .	Left Side
28	504-0003	1	Cock, Di				4- 1	Panel, front 👘
29	130-1001	ļ	Adapter	Adutiet		405-0228		managa, anart Milian Milian Milian
	800-0072	4	Sorew	$(7/16-14 \times 1-1/4^{\circ})$	د .		1	. A ¹⁷
	850-0055	4	Washei	r; Lock (7/17")				



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Cooling System - Standpipe

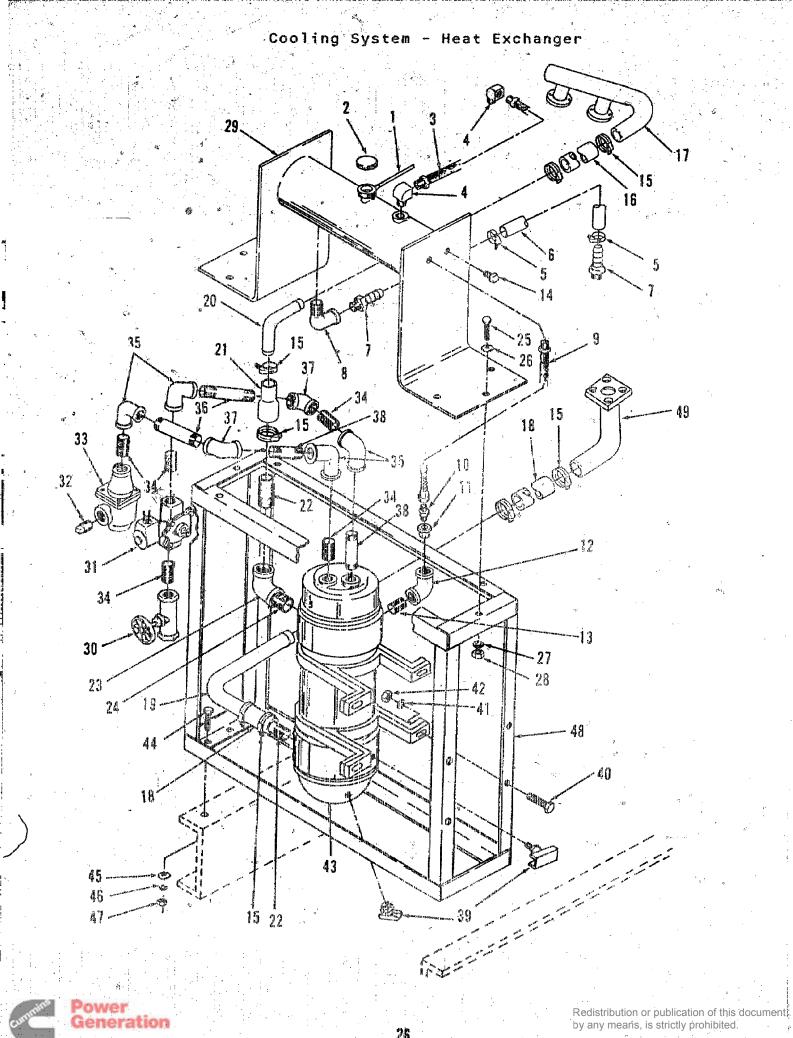
REF	PART	;	QTY.	PART			545T	:		and a state of the
NO.			USED		ř.		PART NO.		OTY	
1	503-0059		4	Clamp, Hose	÷	24	800-0006	;	3	Screw, cap - Hex Head
2	503-0334		. 2	Hose		्यः -			د	(1/4-20 × 7/8")
3	505-0204		· 2	Nipple, Pipe - Helf		25	850-0040	÷	. 5 .	Washer, Lock - Spring (1/4")
4	505-0207		2	Bushing, Reducer			862-0001		2	Nut, Hex (1/4-20)
5	504-0062		1 -	Valve, Vacuum Relief			110-1168		ī	Nipple, Support
6	503-0622		2	Clamp. Hose	۰.	28	130-1169	÷ -	ĩ	Tank, Standpipe
7	503-0815		1	Hose		29	505-0679	· . '	1.	
	505-0603		. 1	Nipple, Pipe		~ 30	505-0669	. '	1 '	Nipple, Pipe Tee, Pipe
9	505-0453		1	Nipple, Pipe Elbow, Pipe - 90 Degree		31	505-0382	ŕ	•	Nipple, Pipe - Close
. 10	505-0842		i	Nipple, Pice -	•	32	504-0006	•	•	Cock, Drain
11	505-0453		1,	, Elbow Pipe - 90 Degree -		33	800-0091		*	Screw, Cap- Hex Head
12	505-0832		1	Nipple, Pipe.						(1/2-13 x 1-1/4")
13	503-0011	×	2 ·	Clamp Hose		34	850-0060		1 :	Washer Lock - Spring (1/2")
14	503-0359		1	Hose		- 35	862-0005	`		, Hut. Hex (1/2-13)
15	505-0437		2	Nipple, Pipe - Haifs		36	130-0740		1	Base
16		224		Valve Control		37	800-0092		4	Screw, Cap - Hex Head
	309:-0242		1	¹ Temperature Regulating						$(1/2-13 \times 1-1/2")$
	307-0839	:	11	Solenpid		38	850-0060		4	Washer, Lock - Spring (1/2")
17		1		Valve. Control		39	862-0005		4	Nut, Hex (1/2-13)
	307-0839		1	Solenoid -		_4 C	130-1168		1	Support Mounting - Standpipe
	504-0090		1 ***	's Manual		41	130-1688		1.00	- Brace
19	505-0140		1	Plug Pipe St		42	130-1689		3	Brace
201	505-0129		1	Bushing Reducer			800-0028		2	Screw, Cap - Hex Head
21	505-0042		2	Elbow, Pipe - 90 Degree						(5/16-18 × 1")
22	505-0258		2	Nippie, Pipe - Close	•		526-0041		2	Washer, Flat (5/16")
23	505-0270		1	Bushing, Reducer			862 1015		2	Nut, Mex (5/16-18)
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Cooling System - Heat Exchanger

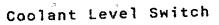
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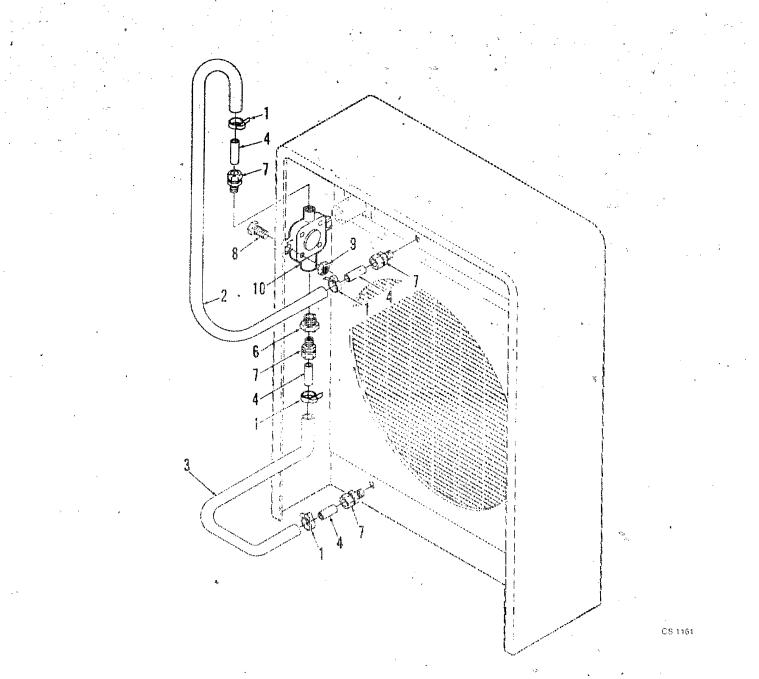
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	REF		QTY	PART		PART	QTY	PART
	NO.	NO.	USED	DESCRIPTION	NO.	NO.	USED	DESCRIPTION
	1	503-0539	1	Hose	27	850-0050	6	Washer, Lock - Spring (3/8")
1.1	2	130-0449		Cap, Radiator	28	862-0003	6	Nut, Hex (3/8-16)
:	3	501-0007	1	Line, Fuel	29	130-2125	1	Tank, Expansion
. • .	4	502-0041	2	Elbow, Inverted Male - 90 Degree			ī	Valve, Globe
	5	503-0429	2	Clamp, Hose	31		1	Valve, Solenoid
	6	503-0924	1	Hose	32	505-0334	1	Plug, Pipe
	7	505-0759	2	Adapter, Pipe to Hose	33	309-0485	1	Valve, Water Saver
	8	505-0003	1	Elbow, Pipe - Street, 90 Degree	34	505-0172	5	Nipple, Pipe - Close
	9	501-0087	1	Line, Fuel		505-0175	4	Elbow, Pipe - 90 Degree
	10	502-0184	- 1	Adapter/Pipe - Hex	36	505-0401	2	Nicple, Pine
	11	502-0049	1	Bushing, Reducer	37	505-0872	2	Elbow, Pipe - 45 Degree
	12	505-0039	1	Elbow, Pipe - 90 Degree	38	505-0173-	2	Nipple, Pipe
	13	505-0101	1	Nipple, Pipe - Close	39	504-0028	2	Cock, Drain
	14	505-0057	3	Plug, Pipe - Square Head	40	800-0091	4	Screw, Cap - Hex Head
	13	505-0759	2	Adapter, Pipe to Hose				$(1/2 - 13 \times 1 - 1/4")$
· ·	14	505-0003	1	Elbow, Pipe - Street, 90 Degree	41	850-0060	đ	Washer, Lock - Spring (1/2")
	15	503-0612	16	Clamp, Hose	42	862-0016	4	Nut, Hex (1/2-13)
	16	503-0788	1	Hose	4.3	130-1431	1	Exchanger, Heat
	17	130-2126	a	Outlet, Water	44	800-0051	-4	Screw: Cap - Hex Head
-	18	503-0782	2	Hose				(3/8-16 x 1-1/4")
		130-2194	1	Tube	45	526-0013	4	Washer, Flat (3/8")
		130-2193	1	Tube	46	850-0050	4	Washer, Lock - Spring (3/8")
	21	503-1200	1	Hose	47	862-0003	4	Nut, Hex (3/8-16)
	22	505-1299	2	Nipple, Pipe - Half	48	130-1833	1	Frame, Support
•	23	505-0453	1	Elbow, Pipe - 90 Degree	49	130-1030	i	Inlet, Water 2
	24	505-0382	1	Nipple, Pipe - Close		800-0072	4	Screw Cap - Hex Head
	25	800-0051	6	Screw, Cap - Fex Head				.(7/36-14 × 1-1/4°)
	26	526-0013	6	(3/8-16 × 1-1/4') Washer, Flat (3/8')		850-0088	4	Washen, Lock - Spring (7/161)

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PART DESCRIPTION PART NO. REF QTY USED ₩O. Connector, Tube, Brass Screw, Self-locking - Hex (1/4-20 x 7/8") Nut, Self-locking - Hex (1/4-20) Switch, Level - Coolant 502-0801 7 4 821-0011 8 2 870-0212 2 9 ×

10 193-0328

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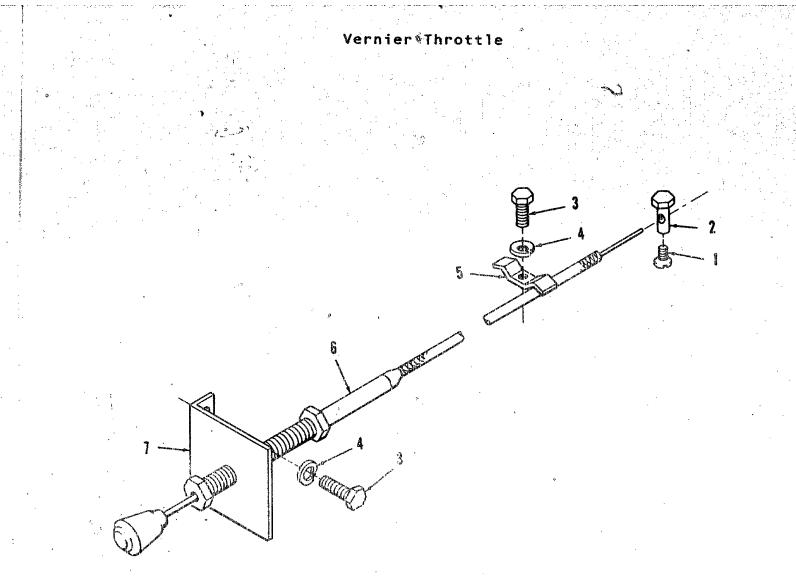
ref No.	PART NO	QTY USED	PART
1	503-0685	ł.	Clamp, Hose
2.	- 503-1117	1	Hose
3	503-1118	1	Hose
4	130-2053	4	Tube
6	502-0802	1	Bushing, Reducer - Her

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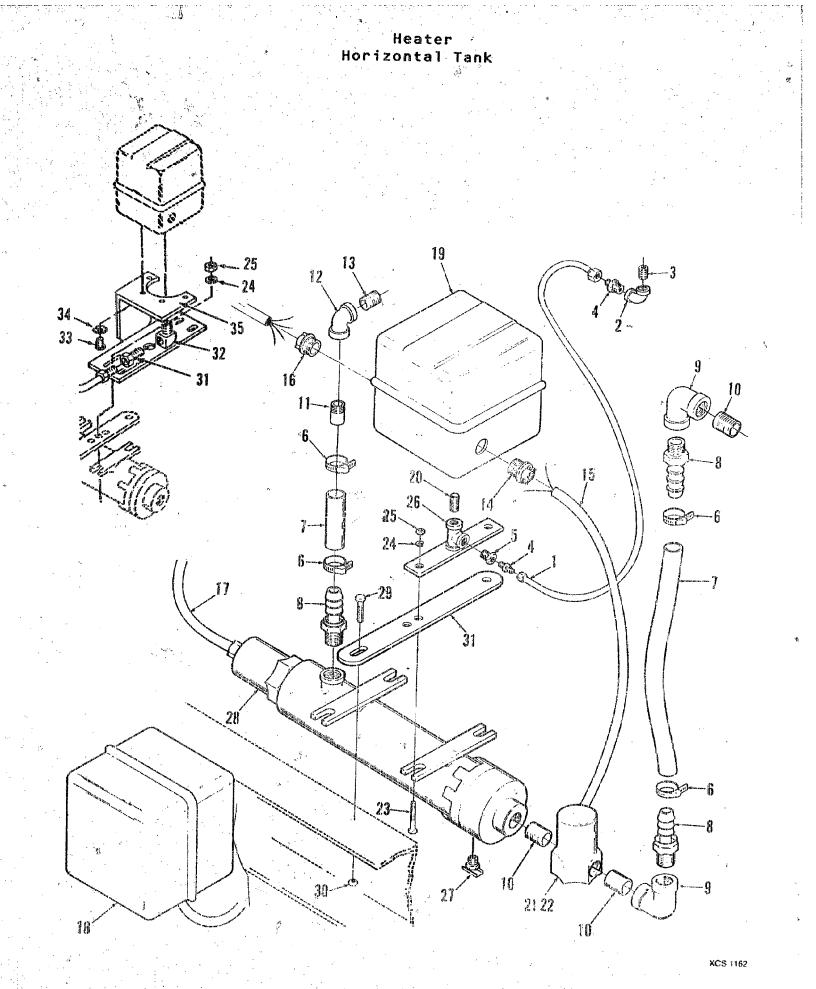
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO	QTY USED	PART DESCRIPTION
1	812-0075	1	Screw, Machine - Round Head	4	850-0040	3	Washer, Lock - Spring (1/4")
			(#8-32 × 1/2")	· 5	152-0036	1	Clamp, Cable
2	152-0158	1	Swivel	. 6	152-0120	1	Throttle, Vernier
· 3	800-0005	3	Screw. Cap - Hex Head (1/4-20 x 3/4")	. 7	151-0230	1	Bracket, Mounting

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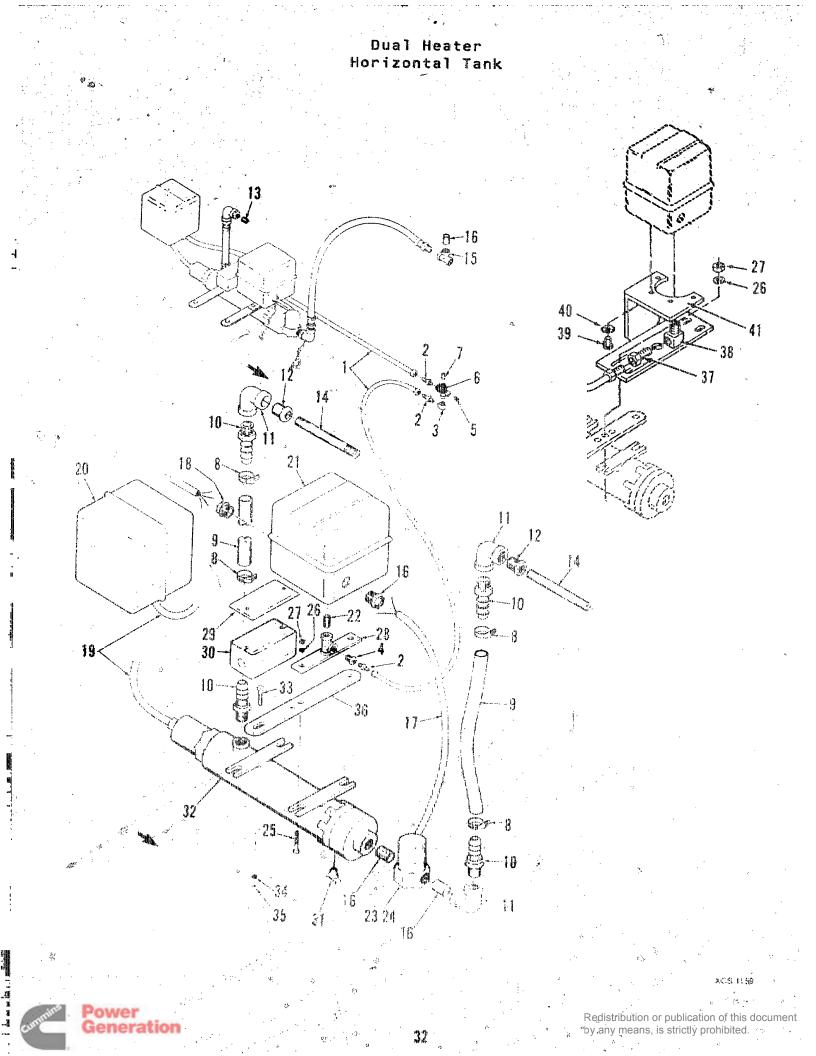


Heater Horizontal Tank

REF NO		QTY USED	PART DESCRIPTION	REF NO.		QTY USED	
1	501-0199	1	Line, Fuel	23	800-0007	4	Screw, Cap - Hex Head
2	505-0037	1	Elbow, Pipe - 90 Degree				(1/4-20 x 1")
3	505-0098	1	Nipple, Pipe - Close		850-0040	4	Washer, Lock - Spring (1/4")
4	502-0193	2	Connector	` 25	862-0001	. 4	Nut; Hex (1/4-20)
<u>5</u>	505-0007	1	Bushing, Reducer - Hex	26	333-0142	1	Support with Tee [1970 Thru
6	503-0429	4	Clamp, Hose				1982)
7		4	Hose	27	504-0003	1,00	Cock, Drain
	503-1163	1	24"	28			Heater, Electrical
	503-1164	1	48"		333-0143 ·	1	4000 Watt, 208 VAC - 1 Phase
. 8	505-0759	3	Adapter, Hose to Pipe		333-0164	1	4000 Watt, 208 VAC - 3 Phase
9	505-0041	2	Elbow, Pipe - 90 Degree		333~0138	· 1	4000 Watt, 240 VAC - 1 Phase
10	505-0004	2	Nipple, Pipe - Close		333-0190	1	4000 Watt, 240 VAC - 3 Phase
11	505-0324	1	Nipple, Pipe - Half		333-0150	1	4000 Watt, 277 VAC - 1 Phase
12	505-0132	1	Elbow, Pipe - 90 Degree		333-0183	1	4000 Watt, 390 VAC - 1 Phase
13	505-0102	1	Nipple, Pipe - Close		333-0174	ĩ	4000 Watt, 380 VAC - 3 Phase
14	505-0289	1	Bushing, Reducer - Hex		333-0161	1.	4000 Watt, 480 YAC - 1 Phase
16	331-0027	4	Clamp, Cable		333-0144	1	4000 Watt, 480 VAC - 3 Phase
16	505-0333	1	Elbow, Pipe - Street, 45 Degree	29	821-0016	4	Screw, Self-locking - Hex Head
18	. 1		Contactor				(5/16-18 × 3/4")
	307-1460	- 1	230 VAC, 3 Pole	29	870-0257	4	Nut, Self-locking, Hex (5/15-18)
	307-1164	1	460 VAC, 3 Pole	30	130-1191	2	Bracket, Mounting
19	309-0307	1	Switch, Pressure - Oil	31	505-0007	1	Bushing, Reducer - Hex (Begin
20	505-0099	2	Nipple, Pipe - Close (1970 Thru				1983)
			1982)	32	502-0054	1	Elbow, Pipe - Street, 90 Degr
21			Switch, Thermostatic				(Begin 1983)
	309-0304	1	- 80' - 100° Fahrenheit	3.3	812-0079	2,	Schew, Machine - Round Head 👘 👘
	309-0490	1	100° - 120° Fahrenheit				(≭8~32 × 1/21) (8eg≤n 1983) -
	309-0253	1	120° - 140° Fahrenheit	34	854-0007	, i t	Washer, Lock - ET (#8) (Segir
22			Terminals				1983)
	331-0027	4	Clamp, Cable	35	333-0224	1	Bracket, Support (Begin 1983)
	323-0957	2	Nut, Wire		/		··· · - ·
	332-0149	8	Lug, Terminal				

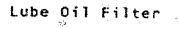
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Dual Heater Horizontal Tank

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	501-0199	2	Line, Fuel	26	850-0040	8	Washer, Lock - Spring (1/4")
2	502-0193	4	Connector	27	862-0001	8	Nut, Hex (1/4-20)
3	505-0020	1	Elbow, Pipe - Street, 90 Degree	28	333-0142	2	Support with Tee (1970 Thru
4	505-0007	2	Bushing, Reducer - Hex		· ·	•	1982)
5	505-0057	1	Plug, Pipe - Square Head	29	330-0004	2	Cover, Outlet Box (Includes
2 6	505-0763	`1	Cross, Pipe	•		•	Screws)
7	505-0098	1	Nipple, Pipe - Close	30	330-0005		Box, Outlet
8	503-0189	. 9	Clamp, Hose	31	504-0003	2	Cock, Drain
9			Hose	32		_	Heater, Electrical
	503-1163	2	24"		333-0143	2	4000 Watt, 208 VAC - 1 Phase
	503-1164	2	48"		333-0164	2	4000 Watt, 208 VAC - 3 Phase
	₉ 505-0759	9	Adapter, Hose to Pipe		333-0138	2	4000 Watt, 240 VAC - 1 Phase
11	505-0041	5	Elbow, Pipe - 90 Degree	:	333-0190	2	4000 Watt, 240 VAC - 3 Rhase
12	505-0129	3	Bushing, Reducer - Hex		333-0150	2	4000 Watt, 277 VAC - 1 Phase
13	505-0102	. 1	Nipple, Pipe - Close		333-0183	2	4000 Watt, 380 VAC - 1 Phase
14	505-0165	2	Nipple, Pipe		333-0174	2	4000 Watt, 380 VAC - 3 Phase
15	505-0304	1	Tee, Pipe		333-0161	2	4000 Watt, 480 VAC- 1 Phase
16	331-0027	. 8	Clamp, Cable		333-0144	2	4000 Watt, 480 VAC - 3 Phase
18	331-0027	4	Clamp, Cable	33	800-0030	Β.	Screw, Cap - Hex Head
20			Contactor		30	÷	(5/16-18 × 1-17 ¹)
	307-1460	2	230 VAC, 3 Pole	34		8	Washer, Lock - Spring (5/16")
	307-1164	2	460 VAC, 3 Pole	35	862-0015	8	Nut, Hex (5/16-18)
21	309-0271	2	Switch, Pressure - Oil	36	130-1191	4	Bracket, Mounting
22	505-0099	2.	Nipple, Pipe - Close (1970 Thru 1982)	37	505-0007	2	Bushing, Reducer - Hex (Begin 1983)
23			Switch, Thermostatic	38	502-0054	2.1	Elbow, Pipe - Street, 90 Degr
	309-0304	2	80° - 100° Fahrenheit			. '	(Begin 1983)
	309-0490	2	100' - 120' Fabrenheit	39	812-0079	3	Screw, Machine - Round Head
	309-0253	2	120° - 140° Fahrenheit				(#8-32 x 1/2") (8egin 1983)
24			Terminals	40	854-0007	3	Washer, Lock - ET (#8) (Begin
	331-0027	8	- Clamp, Cable			•	1983)
	323-0957	4	Nut. Wire	41	333-0224	2	Bracket, Support (Begin 1983)
	332-0149	16	Luo, Terminal				
25	800-0009		Screw, Cap - Hew Head				
		- ·	(1/4-20 × 1-1/2")				



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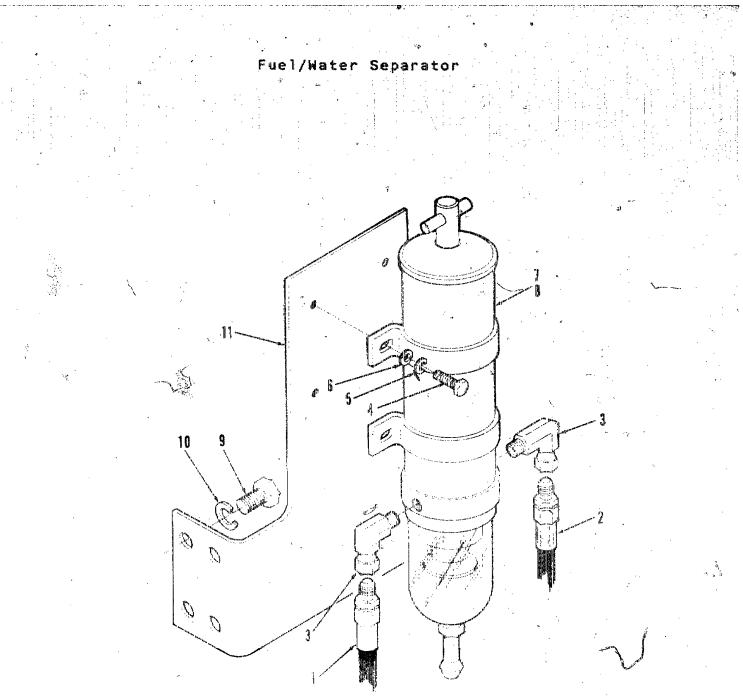


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ref NCI.	part No.	QTY USED	PART DESCRIPTION	REF		QTH USED	PART DESCRIPTION
1 2 3 4 5 6 7 5	501-0379 501-0380 505-0119 502-0321 502-0594 505-0022 502-0277 800-0053	1 ** 1 2 2 1 1 2 3	Line, Fuel Line, Fuel Elbow, Pipe - Street, 90 Degrée Adapter, Line to Pipe Bushing, Reducer - Hex Elbow, Pipe - 90 Degree Screw, Cep - Hex Head (3/8-16 x 1-3/4")	10 11 12 13	850-0050 862-0003 122-0524 122-0526 800-0053 850-0050 122-0544	3 3 1 1 2	Washer, Lock - Spring (3/8") Nut, Hax (3/8-16) Head, Filter Element, Filter Screw, Cap - Hex Head (3/8-16 x 1-3/4") Washer, Lock - Spring (3/8") Bracket, Hounting

Power Generation

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ref No.	PART No.	QTY USED	PART DESCRIPTION	REF NO.	PART NO	QTY USED	PART DESCRIPTION
1	501-0287	• 1.	Line, Fuel	ġ	149-1628	•	Separator (Includes Element)
2	501-0288	1	line, Fuel	۶I	149-1689	•	Element .
Э	502-0641	2.	Elbow, Pipe - Swivel. 90 Degnee	9 -	800 0130	4	Screw, Cap - Hex Head (,
4	800-0028	4	Screw, Cap Hex Head	10	<u>#50-6670</u>	4	Washer, Look ~ Spring (5/8").
			$(5/15-18 \times 1^{2})$	11	149-1679	1	Bracket, Mounting
5	850-0045	4	Washer, Lock - Spring (5/16")				-
· 6	526 CC22	4	Washer Flat (5/16				1946 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 - 1947 -

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Power Generation

Fuel Pressure Gauge

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ref No.	PART . No.	USED	PART DESCRIPTION	ref No.	NO.	Q U
1-	502-0034	2	Elbow, Tube - 90 Degree (Includes Nut and Ring)	4	193-0128	
2	370-40/03	1	Tube, Copper	5	800-0130	
Э	504-0064	1	Valve, Gate	· · ·		
			· · ·	6	850~0070	
	•			7	193-0029	

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NO.	QTY USED	DESCRIPTION
193-0128	1.	Gauge, Pressure (Includes Bracket and Hardware)
800-0130	1	Screw, Cap - Hex Head (5/8-11 x 1")
850-0070 193-0029	1 1	Washer, Lock - Spring (5/8") Bracket, Mounting

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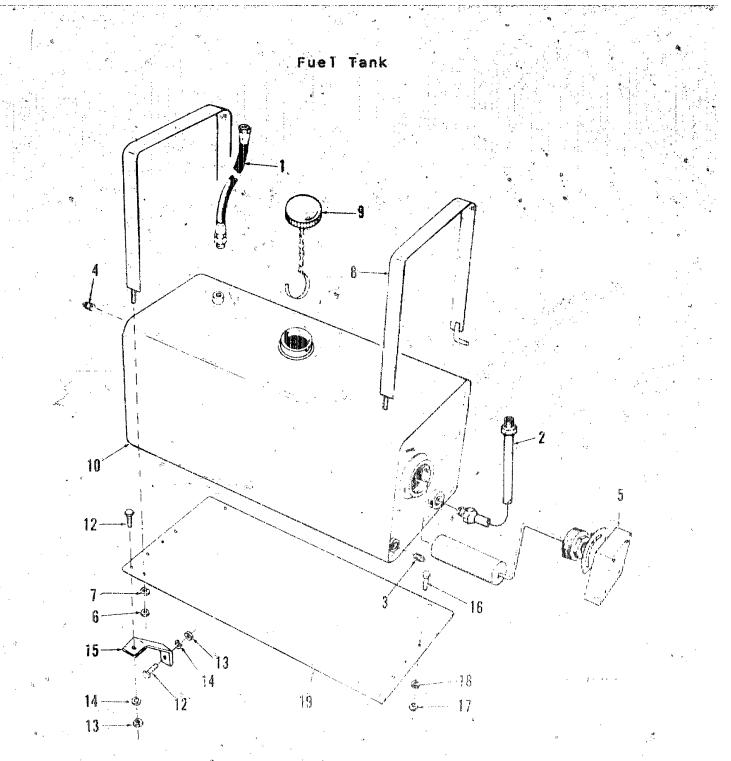
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Power Generation

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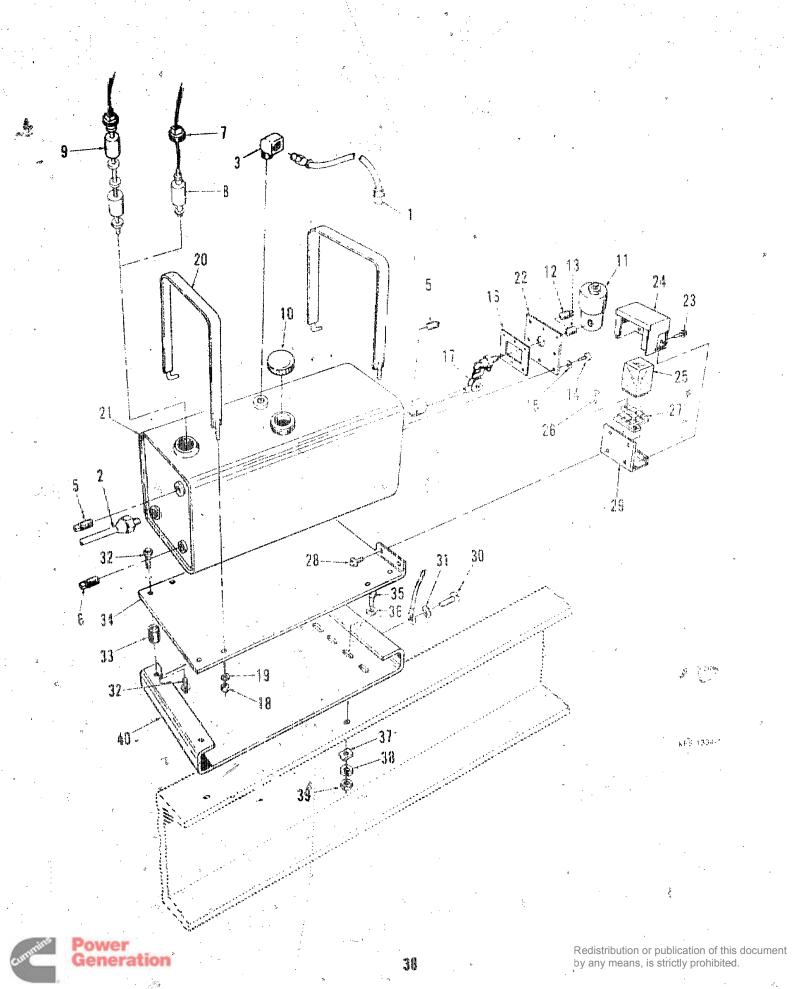


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REF NO.	PART NO.	QTY USED	PART	REF NO .	PART NO	qty Used	PART DESCRIPTION
1	501-0216	1	Line, Fuel	11	800-0007	2	Schew, Cap - Hex Head
2 3	501-0194 505-0110	1	Line, Fuel Plug, Pipe -Square Head	12	8000005	2.0	(1/4-20 x 1") Screw@Cap - Mex Head
4 5	505-0056 415-0170	1 1	Plug, Pipe - Square Head Switch, Level	13	862-0001	4	(1/4-20 × 3/4") Nút, Hex (1/4-20)
6 7	862-0001 850-0040	2	Nut, Hex $(1/4-20)$ Washer, Lock - Spring $(1/4^{\circ})$.850-0040 415-0320 ⁸	· 4 `	Busher, Lock - Sortyg (2/4°) Brace
- 8 - 9	415-0331 159-0020	2 -	Strap, Fold Down Cap, Tark	16	800-000°	2	Schew, Cap ¹ , Held Mena (174-26 x 17)
10	415-0322	1	Tank, Fuel - 8-1/2 Gallon	. 17	862-0001 850-0040	2 .	Nut, Hex (1/4-20)
•		чp		18	415-0330	1	Washen, Lock (Spring (1/41) Plate, Mounting

37

Power Generation

Fuel Tank Overhead/Underground Supply



Fuel Tank Overhead/Underground Supply

							· · ·	
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.		QTY USED	
1	501-0216	1.	Line, Fuel	23	821-0004		2	Screw, Self-locking - Hex
2	501-0084	1	Line, Fuel					(#10-32 x 5/16")
3			Elbow, Pipe	24	415-0464		1 ·	Cover, Access
÷ .	502-0183	1	2 90 Degree(Underground Supply)	25	307-1056		1	Relay
	502-0586	1	45 Degree (Overhead Supply)	26	812-0079		2	Screw, Machine - Round Head
5	505-0056	2	Plug, Pipe - Square Head					(#8-32 × 1/2") 5
6	505-0110 🔅	· <u>1</u>	Plug, Pipe - Square Head	27	323-0804		1	Socket, Relay
î	505-1050	* 4	Plug, Pipe - Modjfiéd).	28	821-0008		2	Screw, Self-locking - Hex
51	435-0466		Switch Ficat (Overhead Supply)					(1/4-20 × 5/16")
Ş	415-0476	4. 4.	Switch Fleat (Underground	-29	415-0463		•	8ox ur
			Supply)	3C (813-0097	÷	1	Screw, Machine - Round Head 🛸
1.0	159-0020	1	Cap. Tank					"→(#10-32 × 5/16")
11	307-1816	. 1.	Valve, Solenoid (Overhead Supply)31	850-0030		1	Washer, Lock - Spring (#10)
12	505-0098	1	Nipple, Pipe	32	821-0014		8	Screw, Self-locking - Hex
13	505-0057	1	Plug, Pipe - Square Head					$(5/16-18 \times 1/2")$
14	800-0002	8	Screw, Cap - Hax Head	33	402-0078		4	Mount, Vibration
		1	$(1/4-20 \times 3/8^{\circ})$	34	415-0479		1	Plate, Mounting
15	526-0063	8	Washer, Flat (1/4")	35	800-0093		2	Schew, Cap - Hex Head
16	415-0486	• 1	Gasket					$(1/2 - 13 \times 1 - 3/4")$
17	309-0404	1	Valve, Float (Overnead Supply)	36	526-0219		5	Washer, Flat (1/2")
18	862-0001	2	Nut, Hex (1/4-20)	37	526-0278		2 .	Washer, Bevel
19	850-0040	2	Washer, Lock - Spring (1/4")	38	850-0060		2	Washer, Lock - Spring (1/2")
20	415-0509	2	Strap	39	862-0016		2	Nut, Hex (1/2-13)
21	415-0465	-	Tank, Fuel - 8-1/2 Galion	40	415-0478		1	Bracket, Mounting
22	415-0515	• ` 	Plate, Access					

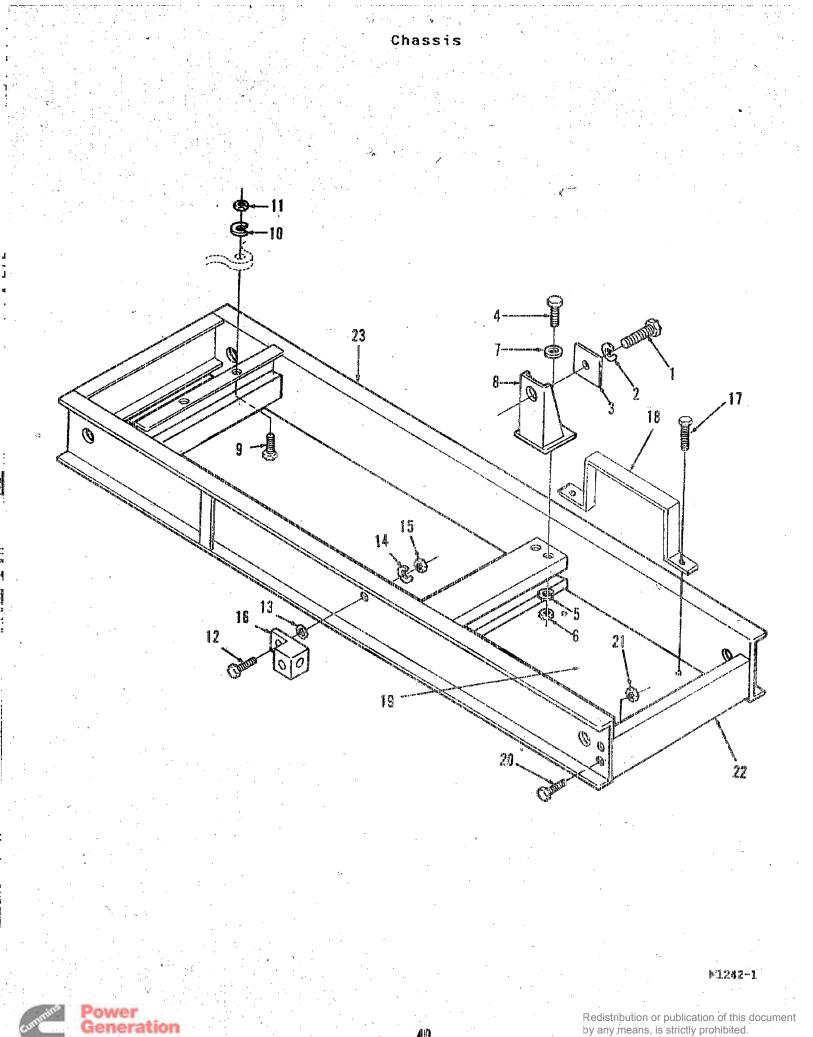
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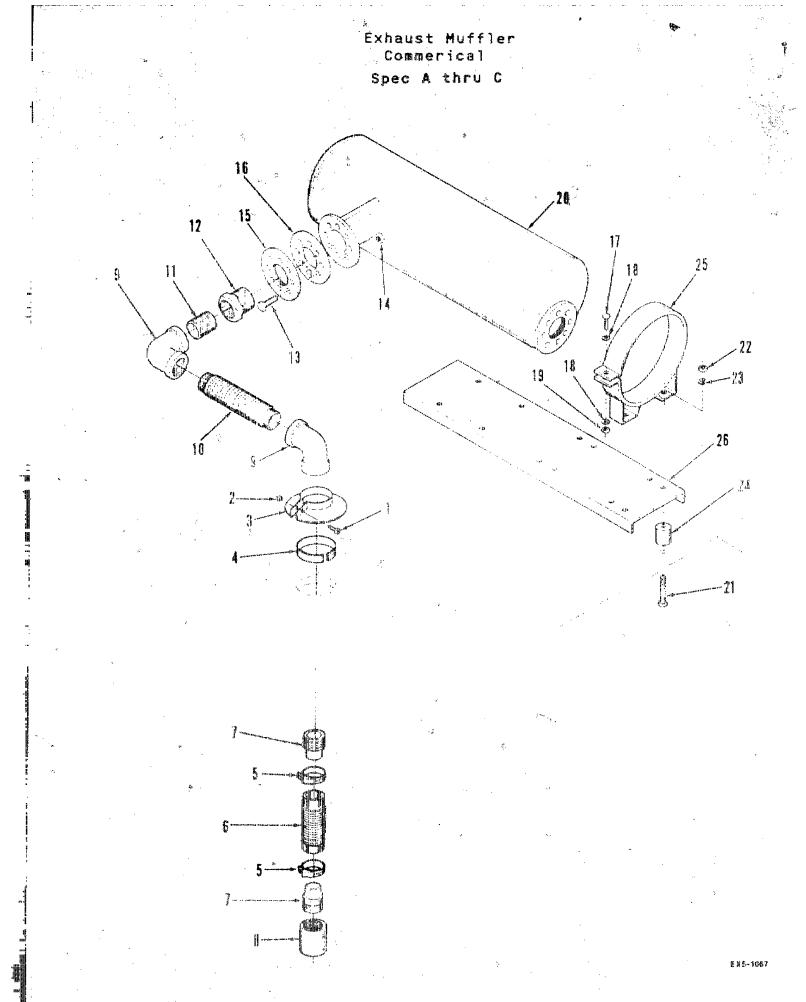
Chassis

1 - E.							
2 · · · · · ·	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	800-0153	2	Screw, Cap - Hex Head	12	416-0635	2	Strap, Holddown
			$(3/4-10 \times 1-1/2")$	13	821-0016	10	Screw, Self-locking - Hex
2	850-0079	2	Washer, Lock - Spring (3/4")				(5/16-18 × 3/4")
3	232-2385	2	Plate, Mounting - Generator	14	870-0257	10	Nut, Self-locking - Hex .
4	800-0156	4	Screw, Cap - Hex Head				(5/16-18)
· ·	an a	11 A.	$(3/4-10 \times 2 - \frac{1}{4}/2")$	15	403-1200	- 1	Panel, Rear - Chassis
5	850-0079	4	Washer, Lock - Spring (3/4")	16	416-0674	1	Tray, Battery
6	862-0020	4	Nut, Hex (3/4-10)	17	800-0028	1	Screw, Cap - Hex Head
7	232-2389	2	Bracket, Mounting - Generator				(5/16-18 × 1")
8	800-0138	. 2	Screw, Cap - Hex Head	18	856~0008	۰.	Washer, Lock - EIT (5/16')
			$(5/8-11 \times 3^{\circ})$	19	850-0045	Ĩ	Washer, Lock - Spring (5/16")
9	850-0070	2	Washer, Lock - Spring (5/8")	20	862-0015	1	Nut, Hex (5/16-18)
10	862-0007	2	Nut, Hex (5/8-11)	21	332-1473	1	Lug, Terminal
11	800-0035	. 1	Screw, Cap - Hex Head	22	403-1218	1	Base, Skid
		,	(5/16-18 × 2-1/2")			-	j,

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Exhaust Muffler Commerical Spec A thru C

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0105	2	Screw, Machine - Round Head	14	862-0008	8	Nut. Hex (3/4-10)
			(#10-32 × 1")	15	155-1219	1	Flange, Companion - Pipe
2	870-0188	2	Nut, Self-locking - Hex	16	155-0677	1	Gasket
		•	(#10-32)	17	800-0037	3.	Screw, Cap - Hex Head
3			Shield, Rain			· · · ·	(5/16-18 × 3")
	155-1425	1 ~	Standard Standard	- 18	526-0113	6	Washer, Flat (5/16")
	155-1639	1	Stainless Steel	19	870-0257	3	Nut, Self-locking - Hex
4	895-0163	1	Strip, Asbestos				(5/16-18)
5	503-0605	2	Clamp	20		1	* Muffler, Éxhaust
5	155-1143	1	Tube, Exhaust - Stainless Steel	21	800-0037	6	Screw, Cap - Hex Head
. 7	155-1275	1	Connector, Tube			·	(5/16-18 × 3")
3	505-0784	1	Coupling, Pipe	22	870-0048	6	Nut, Self-locking - Hex
Э	505-0665	2	Elbow, Pipe - 90 Degree				(5/16-18)
10	155-1431	1	Tube, Exhaust	23	850-0045	6 -	Washer, Lock - Spring (5/16")
11	505-0664	1	Nipple, Pipe - Close	24	155-1430	6	Spacer
12	505-0695	1	Bushing, Reducer - Hex	25	140-0751	3	Band, Mounting
13	800-0160	8	Screw, Cap - Hex Head (3/4-10 × 3-1/4")	26	155-1400	1	Shield, Heat

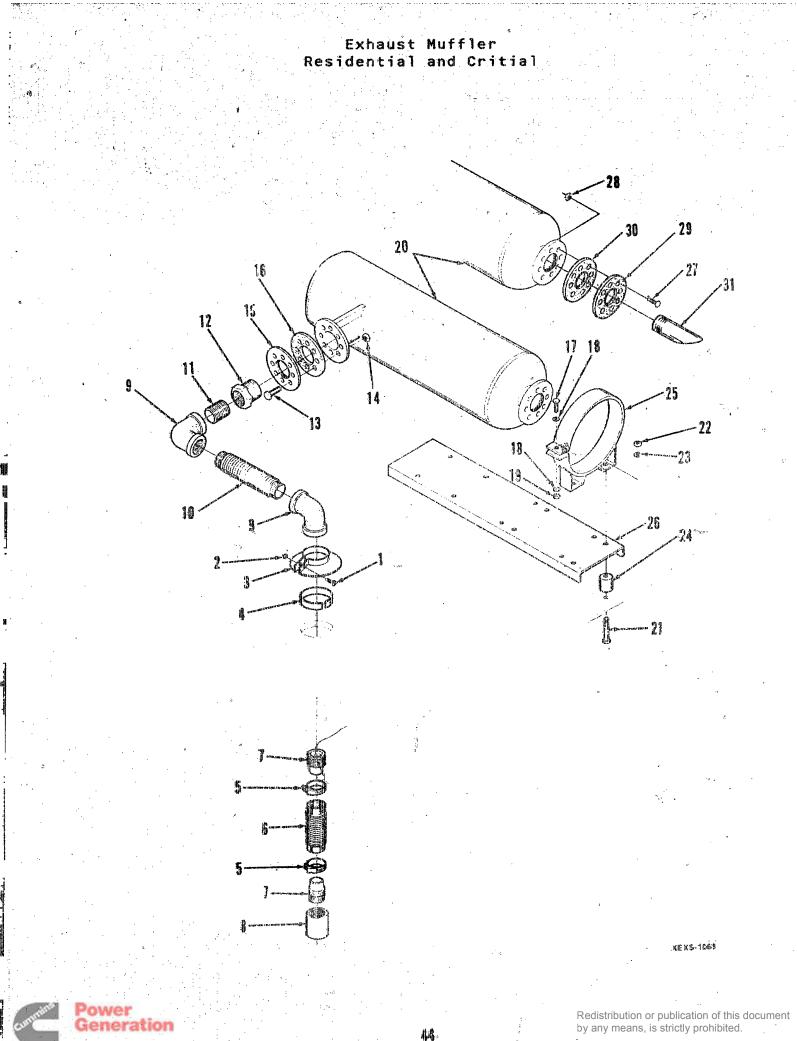
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Exhaust Muffler Residential and Critial

REF NO.		QTY USED	PART DESCRIPTION	ref No.	PART NO.	QTY USED	PART DESCRIPTION
1	813-0105	2	Screw, Machine - Round Head		505-1219 155-0677	1	Flange, Companion - Pipe Gasket
2	870-0188	2	(#10-32 x 1") Nut, Self-locking - Hex (#10-32)	17	800-0037	3	Screw, Cap - Hex Head (5/16-18 x 3")
3		1	Shield, Rain	18	526-0113	6	Washer, Flat (5/16")
•	155-1425	1	Standard	19	870-0257	з	Nut, Self-locking - Hex
	155-1639	1	Stainless Steel				(5/16-18)
4	895-0163	1	Strip, Asbestos	20			Muffler, Exhaust
5	503-0605	2	Clamp		155-1433	i	Critial
6			Tube, Exhaust - Stainless Stee		155-1615	1	Residential
	155-1143	1	10"	21	800-0037	8	Screw, Cap - Hex Head
	155-1435	1.	39"				$(5/16-18 \times 3")$
7	155-1275	1	Connector, Tube	22	870-0048	8	Nut, Self-locking - Hex
8	505-0784	1	Coupling, Pipe	1			(5/16-18)
-9	505-0665	2	Elbow, Pipe - 90 Degree		850-0045	8	Washer, Lock - Spring (5/16")
10			Tube, Exhaust - Stainless Steel		155-1430	8	Spacer
	155-1431	1	23-1/2"		155-1310	4	Band, Mounting
•	155-1436	1	47-1/2"		155-1434	1	Shield, Heat
11			Nipple, Pipe	27	800-0160	B	Screw, Cap - Hex Head
	- 505-0664	1	4-1/2"				$(3/4-10 \times 3-1/4^{\circ})$
•	505-0696	1 .	9*		862-0008	8	Nut Hex (3/4-10)
12	505-0695	1	Bushing, Reducer - Hex		155-0652]	Flange, Companion - Pipe
13	800-0160	8	Screw, Cap - Hex Head	30	155-0676	1	Gasket
			(3/4-10 × 3-1/4")	51	506-0788		slople, Plps - Mod fiel
14	862-0008	8	Nut, Hex (3/4-10)				

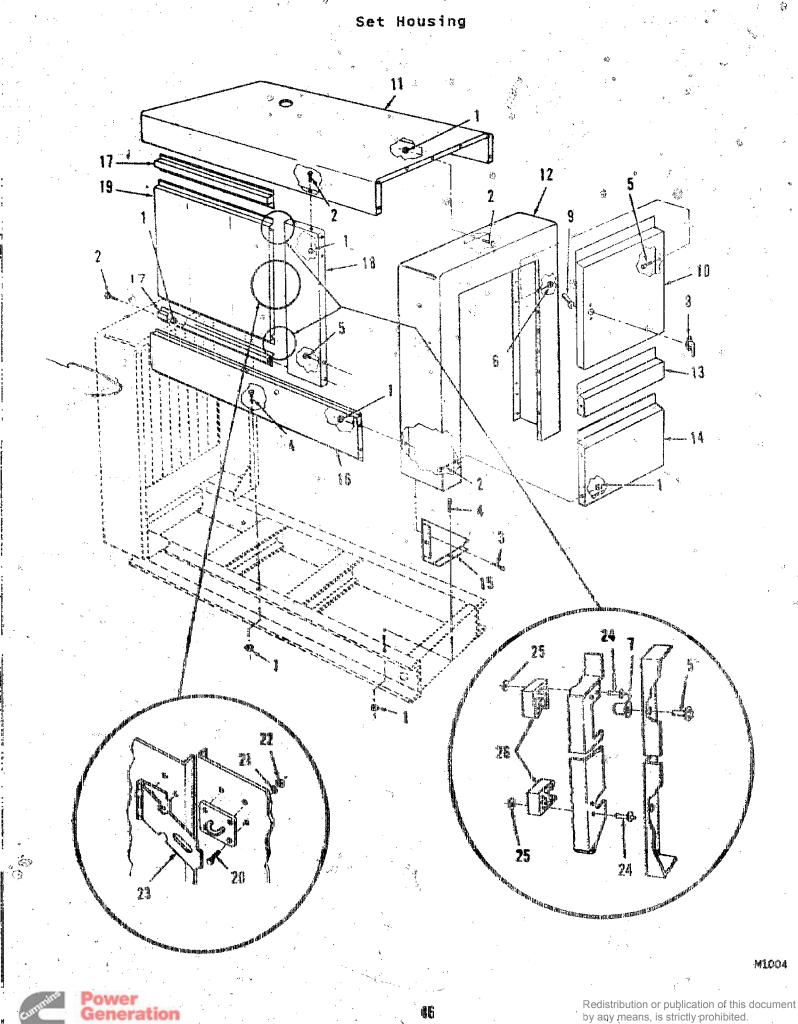
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Set Housing

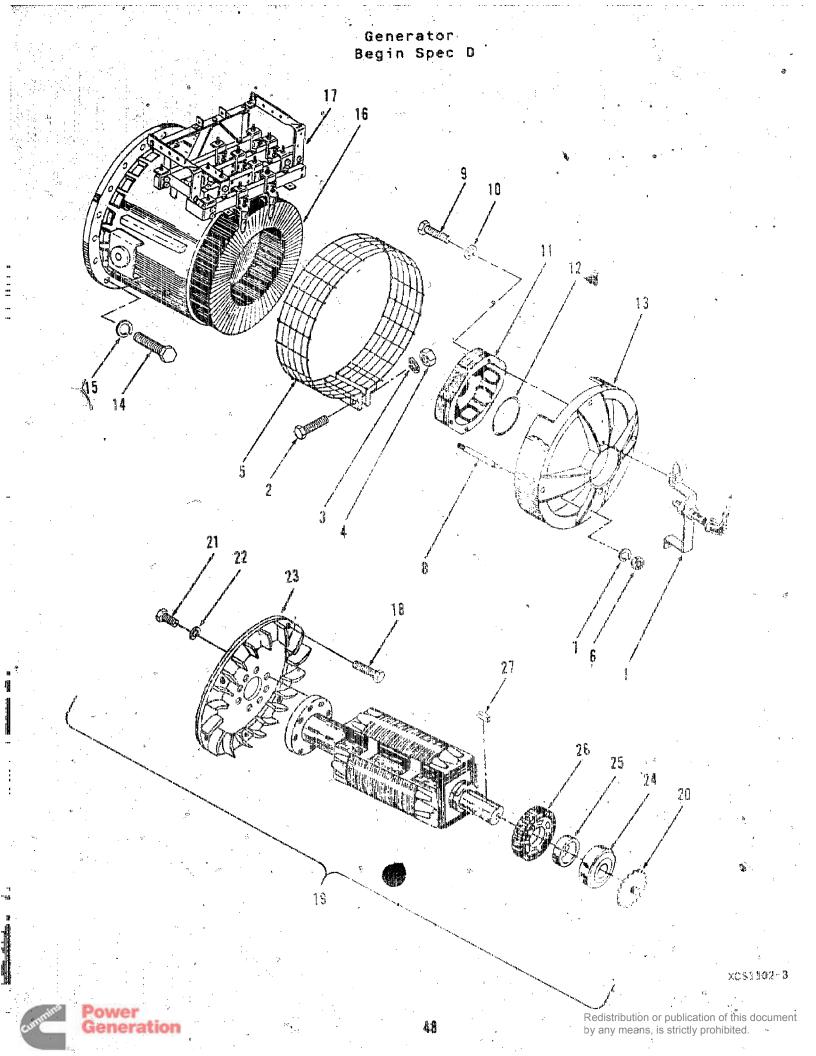
	ref No.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
~~	1	870-0257	64	Nut, Self-locking - Hex	13	405-1858	2,	
	- 35		1 - 1 - 1 - A	(5/16-18)	14	405-1856	1	Panel, Lower - Rear
<pre>\$</pre>	2	821-0014	50	Screw, Self-locking - Hex	15			Bracket, Mounting -
•			يون (1944). المحمقة بين	(5/16-18 × 1/2")	<u>,</u> 1	405-2236	2	Right Side
•	3	821-0016	8 1	Screw, Self-locking - Hex		405-2237	2	Left Side
	•		$p_{\rm c}$	(5/16-18 × 3/4")	16	405-2221	2	Panel, Base
	4	800-0030	6	Screw, Cap - Hex Head	17	405-2014	8	Panel, Louver
		· · · · · · · · · · · · · · · · · · ·	· . ·	(5/16-18 × 1-1/4")	18	405-2220	2	Panel, Center
	5	821-0010	20	Screw, Self-locking - Hex	19	405-2011	4	Door
		022 0020		$(1/4-20 \times 1/2")$	20	81.4-0079	28	Screw, Machine - Flat Head
	6	870-0212	4	Nut, Self-locking - Hex				(#8−32 × 1/2") [°]
	×.	OIQ VELL		(1/4-20)	21	850-0025	28 -	Washer, Lock - Spring (#8)
	. 7	870-0258	16	Nut, Weld	22	860-0008	23	Nut, Hex (#8-32)
	8	406-0157	1	Handle, Lock	23	406-0249	.4	Set, Hasp
	· 9	406-0089	1 .	Catch	24	818-0150	32	Rivet, Drive Pin
	10	405-1880	1	Door, Rear	25	526-0003	32	Washer, Flat (3/16")
	11	405-2229.	1	Panel, Top	26	405-1872	16	Clip, Pivot - Door
	12	405-2227		Panel, Rear				
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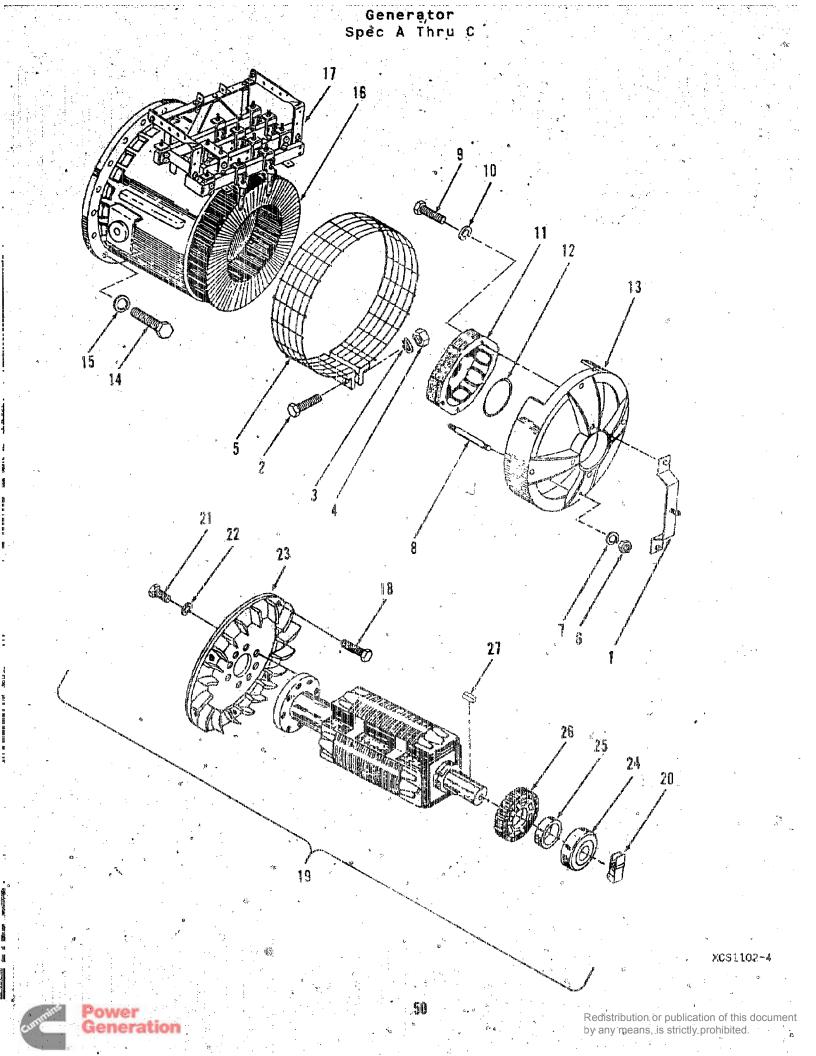


Generator Begin Spec D

REF PART OTY PART REF PART NO. NO. USED DESCRIPTION NO. I NO.	QTY PART USED DESCRIPTION
1 1 Switch Assembly, Dverspeed 17 (See Separate Page for	1 Bus Bar Assembly (See Separate Page for Components)
Components) Components) 2 114-0023 2 Screw, Gap - Hex Head 18 805-0035 (1/4-20 x 1-1/4") 1-1/4" 10 10 10	6 Bolt, Hex Head - Grade 8 (5/8-11 × 1-1/2")
3 850-0040 2 Washer, Lock - Spring (1/4") 19 201-3336 4 862-0001 2 Nut, Hex (1/4-20) 19 201-3336	1 Rotor Assembly (Includes Disk and Fan Assembly, Bearing, Exciter Rotor and Overspeed Switch)
5 234-0455 1 Scheen, Air 6 862-0016 4 Nur, Hex (1/2-13) 20 7 850-0060 4 Washer, Look - Spring (1/21)	1 Switch Assembly, Overspeed (See Separate Page for
- 7 850-0060 4 Washer, Lock - Soring (1/2). 8 520-0780, 4 Stud (1/2-13 × 6-1/2") 9 800-0009 4 Screw, Cap,- Hex Head 21 805-0035.	Components). 8 Bolh, Hex Head, ~ Grade 8
(1/4-20 = 1-1/2)) 10 850-0040 4 Washer, Lock - Spring (1/4)) 22 526-0259	(5/8-11 x 1-1/2°) 9 Washer, Flat - Handered Steel ((5/8°)
11 220-1920 1. Stator, Exciter 12 509-0151 1 Seal, Oil - 10 Ring 23 232-2899 13 211-0214 1. Bell, Eng	
13 21140234 1 . Bell, End 14 800-0092 1 16 Screw, Gao - Hex Head 1 24 51040106 (1/2-135x 1+1/21) 25 23212317	j Rearing Ba∿l 1 Spacar S`eeve
16 850-0060 15 Washer, Look - San ng 26 201-1902 (1/21)	Control Assembly + Exciten [See Seconate Page for Components]
16 Stator (Includes Bus Bar) Assemply) an Bishol45	
220-2140 1 Code 517 220-2546 I Coan 6 120-25361 I Coan 6	
120 (NAEL L. Close 6 220 (NAEC L. Close 6 220 (NAEC L. Close 6 220 (NAEC L. Close 1)	ئو



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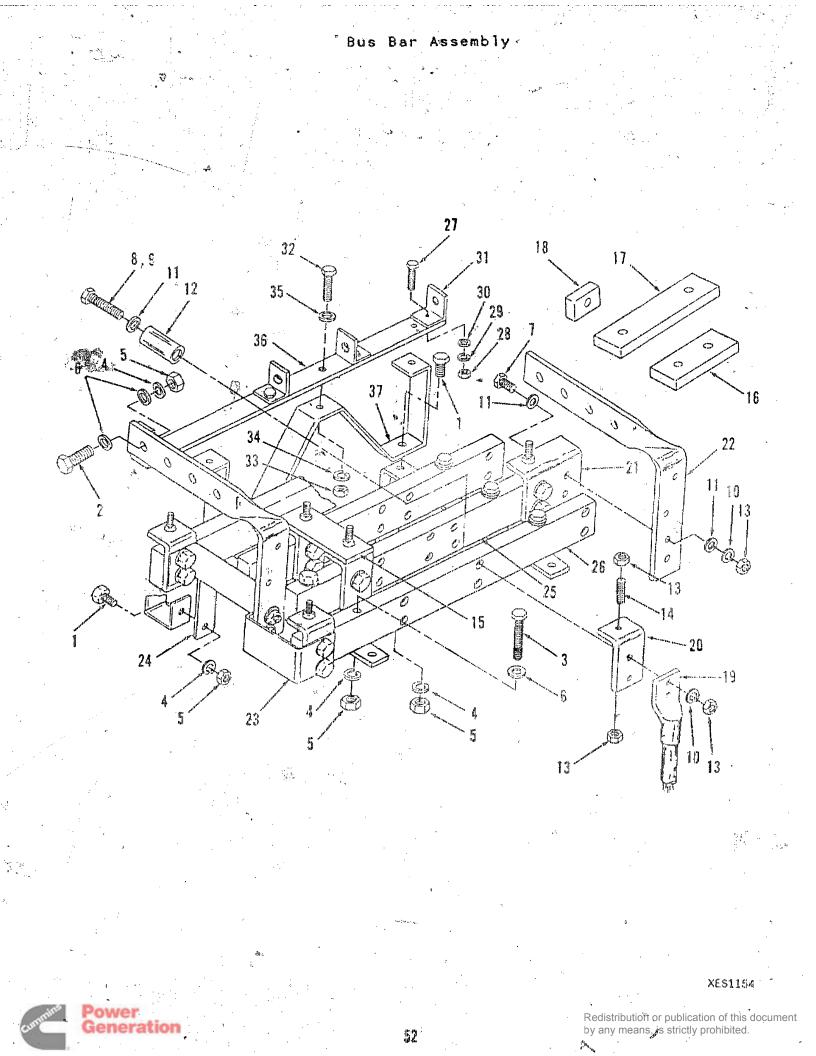


Generatór Spec A Thru C

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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO	PART NO.	•	QTY USED	PART DESCRIPTION
1		1	Sensor Assembly, Overspeed	17	· .		1,	Bus Bar Assembly (See Separate Page for
	1997 - ¹⁴ M		(See Separate Page for			÷.,		Components)
19		έ	Components)	10	805-0035	- +	e .	Bolt, Hex Head - Grade 8
2	114-0023	2	Screw, Cap - Hex Head	18	803-0035	• .*	, U	$(5/8-11 \times 1-1/2")$
			$(1/4-20 \times 1-1/4")$	19	201-1950		1.	Rotor Assembly, (Includes Disk and
3	850-0040	2	Washer, Lock - Spring (1/4")	1.9	201 1300		**	Fan Assembly, Bearing,
4	862-0001	2	Nut, Hex ⁻ (1/4-20)	•				Exciter Rotor and Overspeed
5	234-0455	1	Screen, Air Nut, Hex (1/2-13)					Sensor)
. 6 V	362-0016	4	Washer, Lock - Spring (1/2")	20			1 ·	Switch Assembly, Overspeed
7	850-0060 520-0780	4	Stud $(1/2-13 \times 6-1/2")$	•	. h			(See Separate Page for
8.9	800-0009		Screw, Cap - Hex Head	÷.				Components)
: 4	000,0000		$(1/4-20 \times 1-1/2")$	21	805-0035		8	Bolt, Hex Head - Grade 8
10	850-0040	4	Washer, Lock - Spring (1/4")			•,	. ¥	(5/8-11 × 1-1/2") Washer, Flat - Hardened Steel
.14	220-1920	1	Stator, Exciter	22	526-0259		: 8 Y	(5/B")
12	509-0151	1	Seal, Oil - "O" Ring				5	Disk and Fan Assembly
13	211-0214	1	Bell, End	23	1 232-2899			(Matched Pair)
14	800-0092	16	Screw, Cap - Hex Head	24	510-0106	۰.	5	Bearing, Ball
	,		$(1/2-13 \times 1-1/2")$	25	232-2317		1	Spacer Sleeve
15	850-0060	16	Washer, Lock - Spring	26	201-1902		1	-Rotor, Assembly - Exciter
			(1/2") Stator (Includes Bus Bar					(See Separate Page for
16			Assembly)	17 s.				Components)
	220-2140	· 1	Code 517	27	515-0145	r i	1	Key, Machine
	220-2346	1	Code 5					<i>"</i>
	220-2352	1	Code 6					
	220-2322	ĩ	Code 9					. · · · · · · · · · · · · · · · · · · ·
	220-1917	$\overline{1}$	Code 17		â			5. 1
	5					i s		

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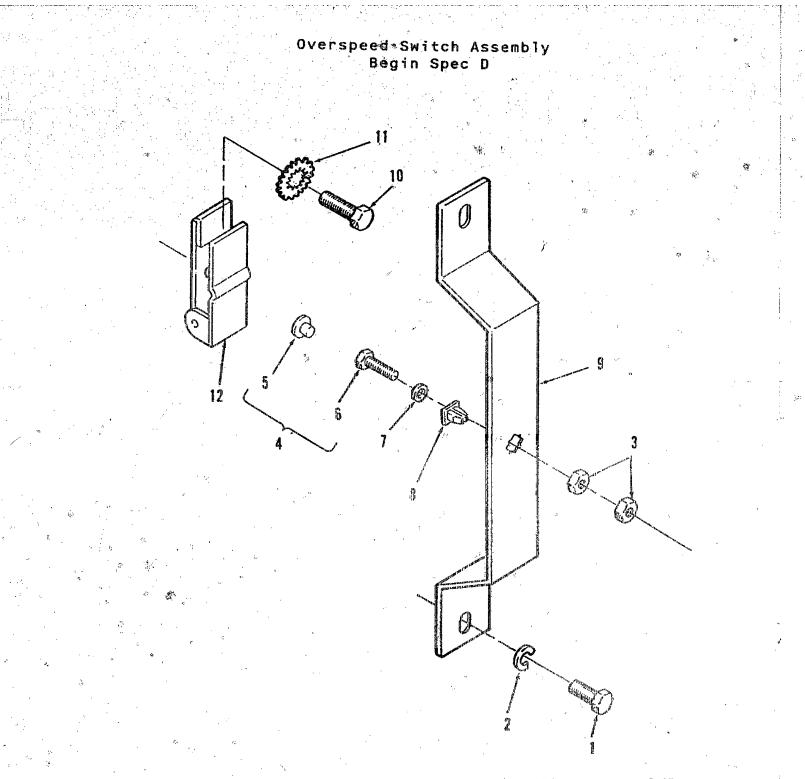
Bus Bar Assembly

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REF NO.		QTY USED		E F D	PART NO.	QTY USED	PART DESCRIPTION
1	800-0050	4	Screw, Cap - Hex Head		232-2583	1	Spacer, Bus Bar
			(3/8-16 × 1")		332-1152		Terminal, Lug
2. 2	800-0051	4	Screw, Cap - Hex Head 20		232-2241	11	Bar, Bus
•			$(3/8-16 \times 1-1/4")$ 2	-	232-2343	3	Bar, Bus
3	800-0056	8	Screw, Cap - Hex Head		232-2240	4,	Bar, Bus
			$(3/8-16 \times 2-1/2")$ 2		232-2238	1	Bar, Bus
. 4	8500050	16	(6/60)		232-2249	2	Bracket, Mounting - Bus Bar
5	862-0003	16	Nut, Hex (3/8-16) 2	-	232-2242	2	Board, Insulator - Center
6	526-0029	16	Washer, Flat (3/8") 2		232-2243	2	Board, Insulator - Front and Rear
7	800-0028	4.	Screw, Cap - Hex Head 2	17	800-0007	4	Screw, Cap - Hex Head
	····		(5/16-18 × 1')			. ·	$(1/4-20 \times 1^{\circ})$
8	114-0022	24			862-0001	4	Nut, Hex' $(1/4-20)$
-				29	850-0040	4	Washer, Lock - Spring (1/4").
9	800-0033	8	JULEW, UDD HUM HUMA	90	526-0018	· 4	Washer, Flat (1/4")
-			$(5/16-18 \times 2^{n})$ 3	11	232-2387	4	Bracket, Angle
10	850-0045	36	Mastiel, Lock opining (a) av /	32	800-0051	3	Screw, Cap - Hex Head (3/8-16 x 1-1/4")
11	526-0115	48	Washer, Flat (5/16")			~	Nut, Hex (3/8-16)
12	232-2344	32	Spacer, orecae		862-0003	3	Washer, Lock - Spring (3/8")
13	862-0015	50	NU(, NEX (5) 10 10)	34	850-0050	· 3	Washer, Flat (3/8")
14	520-0142	14		35	526-0029		Board, Insulator
15	232-2246	2	Dal, Reconnector, Scorig	36	232-2245	. 1	Bracket, Support
16	232-2248	2	Bar, Recommercian endice	37	232-2237	1	STAUKAL, JUNKO'L
, 17	232-258	1	Jumper, Bus Bar	~			
· ·	· · · · ·				1		

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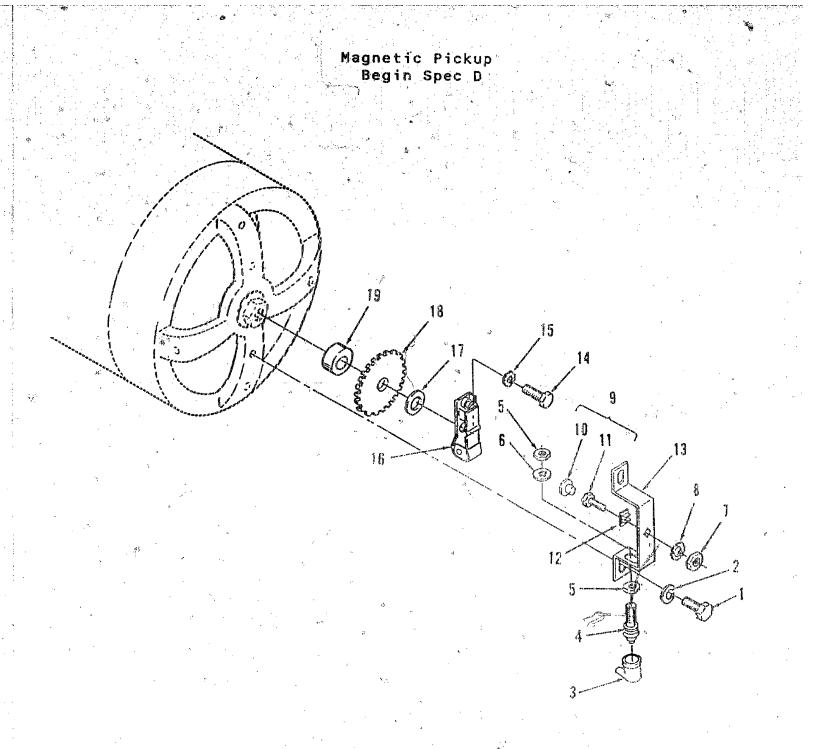
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	ref ND.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	
	1	800-0003	2	Screw, Capar Hex Head	. 6	150-0724	1	Screw, Cap - Modified	
				$(1/4-20 \times 1/2")$	7	853-0013	1	Washer; Lock - ET (1/4")	
	2 ″	850-0040	2	Washer, Lock - Spring (1/4")	B	870-0250	1	Nut, Insulating (1/4")	
÷	3	862-0001	2	Nut, Hex (1/4-20)	. 9	15022104	1	Bracket, Mounting	
• •	4	150-0723	7 1	Point Assemby, Overspeed	10	800-0048	1	Screw, Cap - Hex Head	
		· •		[Includes Contact and		·		(3/8-16 x 3/4")	
		1		Modified Screw)	11	856-0010	1	Washer, Lock - EIT (3/8")	
	Š	306-0036		Contact, Electrical	12	150-0717	1	Switch, Overspeed	

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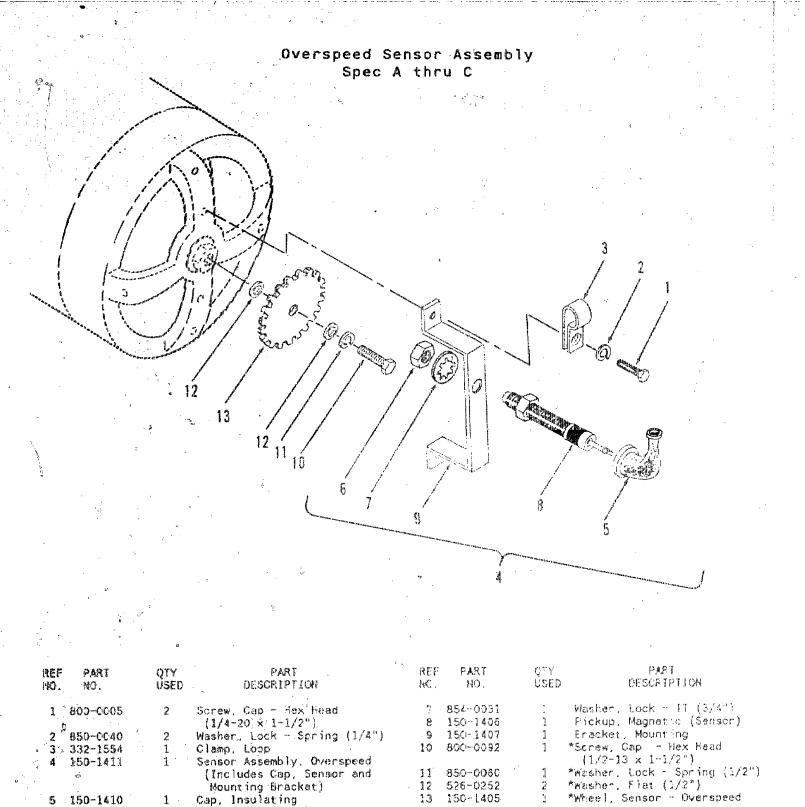
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REF NO.	PART NO.	۰.	OTY USED	PART DESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
1	800-0003	ч ,	2 `	"Screw, Cap - Hex Head (1/4-20 x 1/2")	10 - 11	306-0036 150-0724*	1 1	Contact, Electrical Screw, Cap - Modified
2	850-0040		2	Washer, Lock - Spring (1/4")		8.0-0250	, 1	Nut, Insulating (1/4")
3	150-1410		. 1	Cap, Insulating		V301-9697	1	Bracket, Mounting
4	1501406		1	Pickup, Magnetic (Sensor)	14	800-0053	1	Screw, Cap - Hex Head
5	868-0011		2	Nut, Hex (3/4-16)			14	$(3/8-16 \times 1-3/4")$
õ	854-0031		ī	Washer, Lock - IT (3/4")	15	856-0010	1	Washer, Lock - EIT (3/8")
7	862-0001		2	Nut, Hex (1/4-20)	16	150-0717	. 1	Switch, Cverspeed
8	853-0013		Ĩ	Washer, Lock - ET (1/4")	17	526-0077	1	Washer, Flat (13/32/ 10 x - 1-174° 00 x 1/4° Thick)
9	150-0723		1	Point Assembly, Overspeed		6		
	1	÷	ι.	(Includes Contact and	18	150-1557	1	Wheel. Sensor - Overspeed
		1		Modified Screw)		370-4011	L	Spacer, Sleeve
1.6		÷.,			•	and the second second		

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Power Generation



Mounting Bracket) Cap. Insulating Nut, Hex (3/4-16) 150-1410 1 . 868-0011 2

- Parts included with Generator Rotor Assembly.

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Exciter Rotor Components

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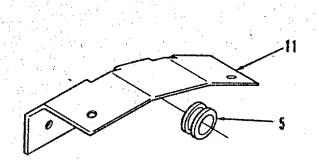
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REF NO.	PART NO.	QTV USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
			Rotor, Exciter (Includes	7	850-0030	. 4	Washer, Lock -{\$pring (#10)
			Heat Sinks and Diodes)	8	508-0156	4	Washer, Insulating
	001 1000	1	Standard	9	526-0009	4	Washer, Flat (#10)
	201-1902	1	Enviromental Protected	10	508-0187	4	Spacer, Stepped
	201-2453		Screw, Machine - Round Head	11	332-0050	2	Clamp, Loop
1	B13-0100	6	$(#10-32 \times 1/2")$	12	508-0093	. 2	Grommet
		0	(HLUTSZ X 1/2 /	13	868-0001	6	Nut, Hex (1/4-28)
2	870-0053	2	Nut, Hex (#10-32)	14	850-0040	6	Washer, Lock - Spring (1/4")
- 3	850-0030	2	Washer, Lock - Spring (#10)		358-0011		Rectifier, Diode - Positive
4	526-0008	2	Washer, Flat (#10)	15	300-00rt		(CR1, CR2, CR3)
5	813-0110	4	Screw, Machine - Round Head	`		~	Rectifier, Diode - Negative
			(#10-32 × 2")	16	358-0012	3	(CR4, CR5, CR6)
6	870-0053	4	Nut, Hex (#10-32)	4 17	363-0049	٩	Sink, Heat
				11		4	Sink, Heat
				18	363-0050	1	Stury near

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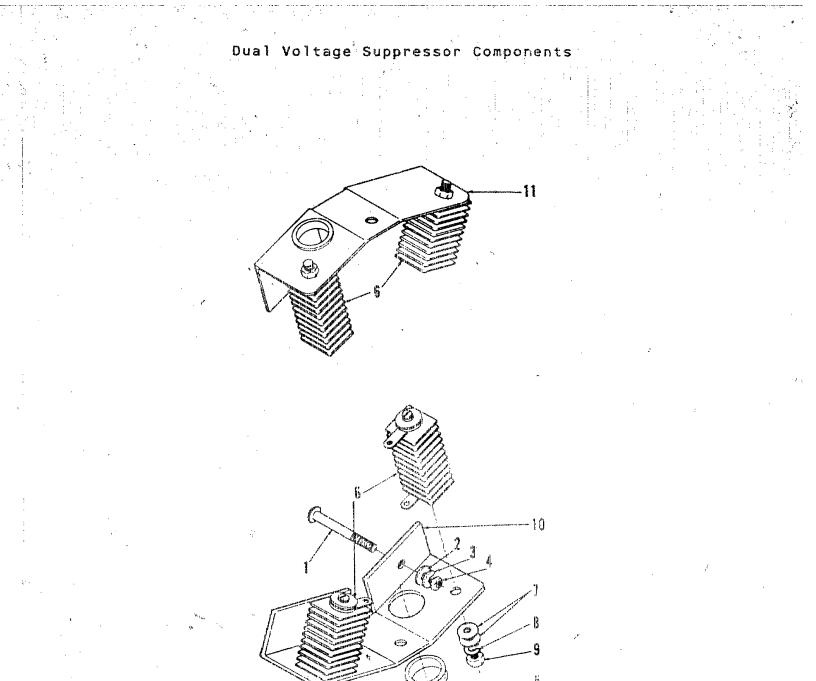


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REF NO		QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
•	232-2445	1	Suppressor, Voltage	6	305-0526	1	Set, Voltage Suppressor
1	813-0112	. 4	Screw, Machine - Round Head	7	526-0140	4	Washer, Flat (#10)
. •.			(#10-32 × 2-1/2")	8	850-0030	4	Washer, Lock - Spring (#10)
2	526-0140	4	Washer, Flat (#10)	9	870-0053	4	Nut, Hex (#10-32)
3	850-0030	4	Washer, Lock - Spring (#10)	10	363-0054	1	Sink, Heat
4	870-0053	4	Nut, Hox (#10-32)	11	363-0055	1	Sink, Heat
5	508-0093	2	Gronmet				4

Power Generation

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REF NC		QTY USED	PART DESCRIPTION	REF NO .	PART NO.	QTY USED	PAFT DESCRIPTION
	232-2639	1	Suppressor, Voltage - Dual	6	305-0526	2	Set. Voltage Suppressor
. 1	813-0112	8	Screw, Machine - Round Head	7	526-0140	8	Washer, Flat (#10)
. 1	010 0112	. •	(#10-32 × 2-1/2")	8	850-0030	8	Washer, Lock - Spring (#10)
2	526-0140	8	Washer, Flat (#10)	9	870-0053	8	Nut, Hex (#10-32)
3	850-0030	8	Washer, Lock - Spring (#10)	. 10	363-0025.	1	Sink, Heat
4	870-0053	8	Nut, Hex (#10-32)	3.3	363-0033	1	Cink, Hoar
5	508-0093	2	Grommet				

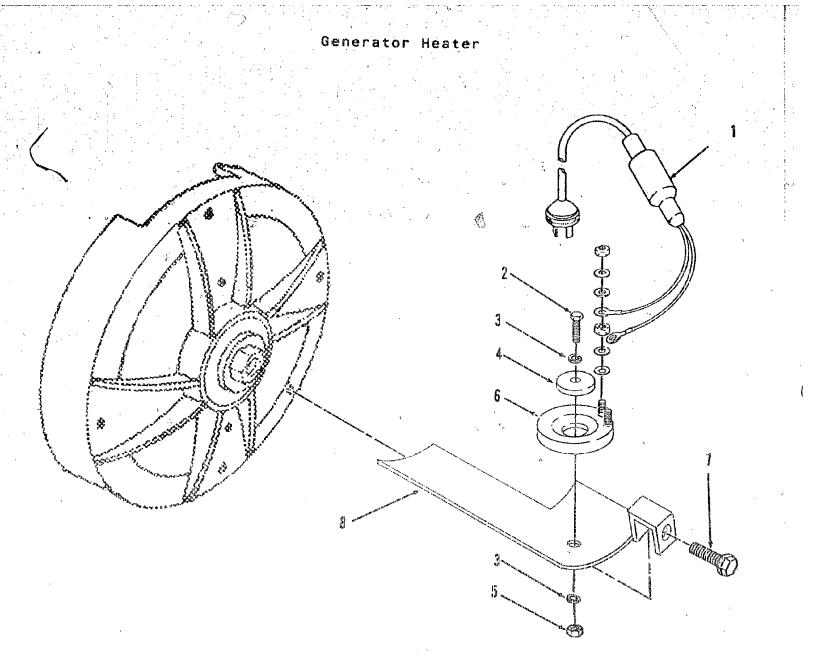




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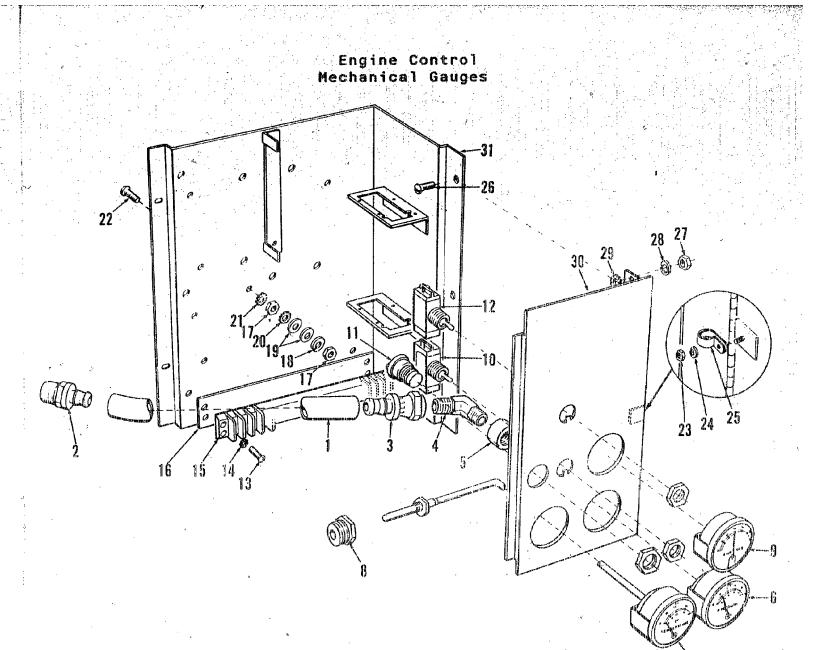
PART DESCRIPTION



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REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF	PART NO.	QTY USED	PART DESCRIPTION	
1		Ċ	able, Electrical (Includes	5	862-0001	1	Nut, Hax (1/4-20)	
		· • •	The Prostat)	6			Heater, Electrical	
	335-0146	1	120 VAC		333-0059	1	125 Watt. 120 VAC	
	335-0147	1	240 VAC		333-0192	1	200 Watt, 240 VAC	
2	800-0004	i s	crew, Cap - Hex Head (1/4-20 x 5/8")	7	821-0014	1	Screw, Self-locking - Hex (5/16-18 x 1/2")	
3	850-0038	1. 14	lasher, Lock - Spring (1/4")	8			Bracket, Mounting	
Ā	526-0158		lasher, Flat (17/64"ID x		232-2446	1	Used with 120 VAC Heater	÷
			1"0D x 1/8"Thick)		59 <mark>5-59</mark> 35	1	Used with 240 VAC Heater	

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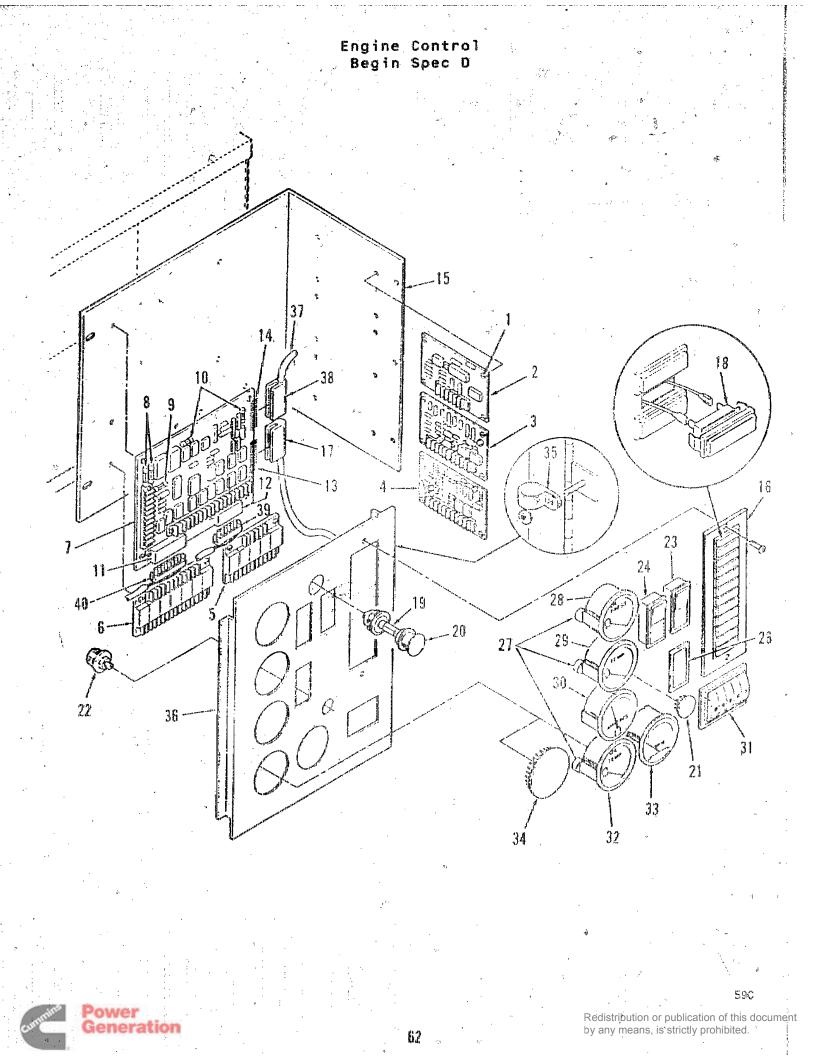
REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	503-1077	ş	Hose	. 14	853-0003	2	Washer, Lock - ET (#6)
	502-0444	1 1	Adapter Pipe to Hose - Male	15	332-0795	1	Block, Terminal - 20 Place
2	502-0445	4	Adapter Pipe to Hose - Female		332-1241	1	Strip, Marker
ر. الا	502-0583	1	Elbow, Pipe - 45 Degree	17	871-0010	5	Nut, Hex - Brass (#10-32)
아 문	502-0051	1	Coupling, Pipe	1.8	850-0030	2	Washer, Lock - Spring (#10)
о с	902-0091	T.	Gauge, Pressure - Oil	1.0	526-0052	5	Washer, Flat - Brass (#10)
ø	100.0000	- 4	0 - 75 Pounds	20	853-0008	1	Washer, Lock - ET (#10)
	193-0232	L.	0 - 150 Pounds	21	856~0003	. 1	Washer, Lock - EIT (#10)
17	193-0233	.L		22	815~0203	1	Screw, Machine - Round Head
7	· .		Gauge, Temperature - Water (Includes Reducer)		015-0203	T	$(\ddagger10-32 \times 7/8")$
	193-0234	1	72" Capillary Tube	23	870-0053	1	Nut, Hex (#10-32)
	193-0235	1	84" Capillary Tube	24	850-0030	1	Washer, Lock - Spring (#10)
	193-0236	1	96" Capillary Tube	25	332-0051	2	Clamp, Loop
•	193-0305	1	144" Capillary Tube	26	815-0026	5	Screw, Machine - Trues Head
8	NFS	- Î	Reducer, Hex (Part of Gauge)		2		(#10-32 × 3/8 ⁺)
à	302-0061	1	Anneter	27	870~0053	1	Nut, Hex (#10-32)
10	308-0088	· • •	Switch, Toggle	28	850-0030	1	Washer, Lock - Spring (#10)
11	308-0297	ĩ	Switch, Push	29	B56-0003	ĩ	Washer, Lock - EIT (#10)
12	308-0155	1	Switch, Toggle) ao	301-4009	1	Panel, Control
13	812-0066		Screw, Machine - Round Head	31	301-3253	1	Bracket, Mounting
	terdata (Martina bartina)	4	(#6-32 × 3/4")			-	9 0
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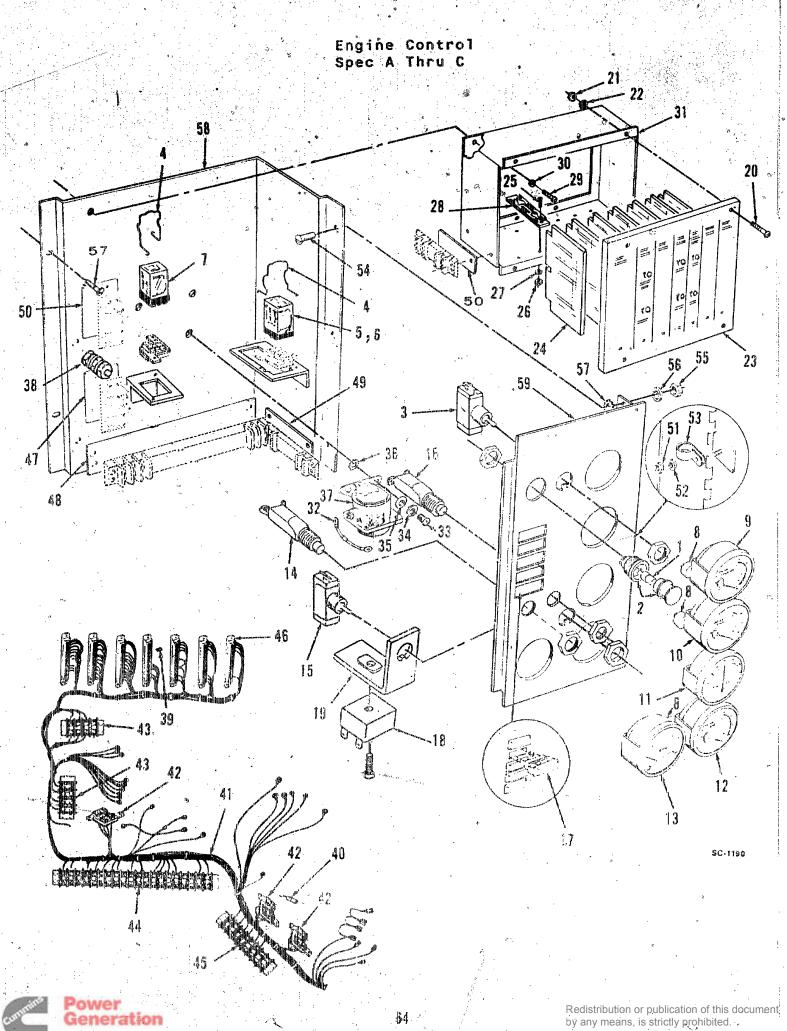
Engine Control Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	815-0544	24	Screw, Machine - Round Head	17	323-1310	1	Housirig, 13 Pin (J3)
	0.10 0044		With IT Lock Washer		323-1302	13	Contact, Pin
			(#6-32 × 1/2")	18	322-0369-02	1	Lamp, Incandescent - 1/3 Watt,
2	300-2900	<u>د</u> 1 ·	Board, Time Delay,				28 VDC
	000 2000		Start/Stop - 24 VDC (A15)	19	322-0017	1	Lamp, Incandescent - 28 VDC
3			Board, Magnetic Sensor,			1970 - 1970 1970 - 1970 - 1970	(OS11)
.			Start Disconnect/Over Speed	20	322-0361	1	Holder, Lamp
	N 6	• •	Sensor (A16)	21	517-0131	1	Plug, Button
	300-2903	1	Standard	22	151-0402	1	Potentiometer (RII)
	300-2904	1	Precision	23	308-0785	1	Switch, Push (S11)
A	300-2906	1	Board, Over-Under Voltage	24	308-0784	1	Switch, Push (S12)
1.44	300 2300		Sensor - 24 VOC (A17)	26	301-6257	1	Cover
5	300-2856	· 1	Board, Relay - 24 VDC (A13)	27	193-0250	3	Resistor: Gauge (R12,R13,R14)
6	300-2863	1	Board, Relay - 24 VDC (A14)	28	193-0352	1	Gauge, Pressure - Oil (M11)
7	300-2003	7	Board, Engine Monitor (A11)	29	193-0351	1	Gauge, Temperature - Water
1			(Includes Fuses and	20			(M12)
			Connectors)	30	302-1790	1.	Ammeter (M13)
	300-2808	1	24 VDC, 2 Light	31	302-0885	1	Meter, Totalizing - Time
	300-2808	. <u>1</u> .	24 VDC, 12 Light	~**			(M14)
8	300-2812	2	Fuse, Cartridge - 20 Amp	32	193-0330	1	Gauge, Temperature - Oil
	4		(F1, F2)			100	(M15)
9	321-0231	1	Fuse, Cartridge – 15 Amp	33	302-1715		Tachometer (M16)
			(F3) **	34	517-0221	1	Plug, Button
- 10	321-0094	2	Fuse, Cartridge - 5 Amp	35	322-0052	1	Clamp, Loop
			(F4, F5)	,	870-0131	1,3	Nut, Self-locking - Hex (#10-32)
11	323-1305	1	Connector, 8 Pin (P1)	36			Door, Control
12	323-1303	1	Connector, 6 Pin (P2)		301-9055-01	1	5 Meter Holes
13		1	Connector, 13 Pin (P3)		301-9055-02	1.	3 Meter Holes
14	323-1307	1	Connector, 12 Pin (P4)	37	338-1817	1.15	Harness, Wiring - DC
15	301-8851	1.	Bracket, Mounting				(Includes Connector)
	821-0004 -	4	Screw, Self-locking - Hex	38	323-1308	1	Housing, 12 Pin (J4)
•			(*10-32 × 5/16")		323-1302	12	Contact, Pin
16			Module, Indicator - Fault	39	323-1304	1	*Housing, 6 Pin
74		. •	(A12) (Includes Connector)		323-1200	6	*Contact, Pin
	322-0358-02	1	24 VDC, 2 Light	40	323-1306	1	*Housing, B Pin
	322-0360-02	1	24 VDC, 12 Light	÷ .	323-1200	8	*Contact, Pin
	815-0385	2	Screw, Machine - Round Head				
	010 0000		(#6-32 × 1/2")	• •		•	
	870-0183	2	Nut, Self-locking - Hex				
	*		(#6-32)				·
		N ,	(,	*	· Parts Inclu	ded in	Engine Wiring Harness

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Engine Control Spec A Thru C

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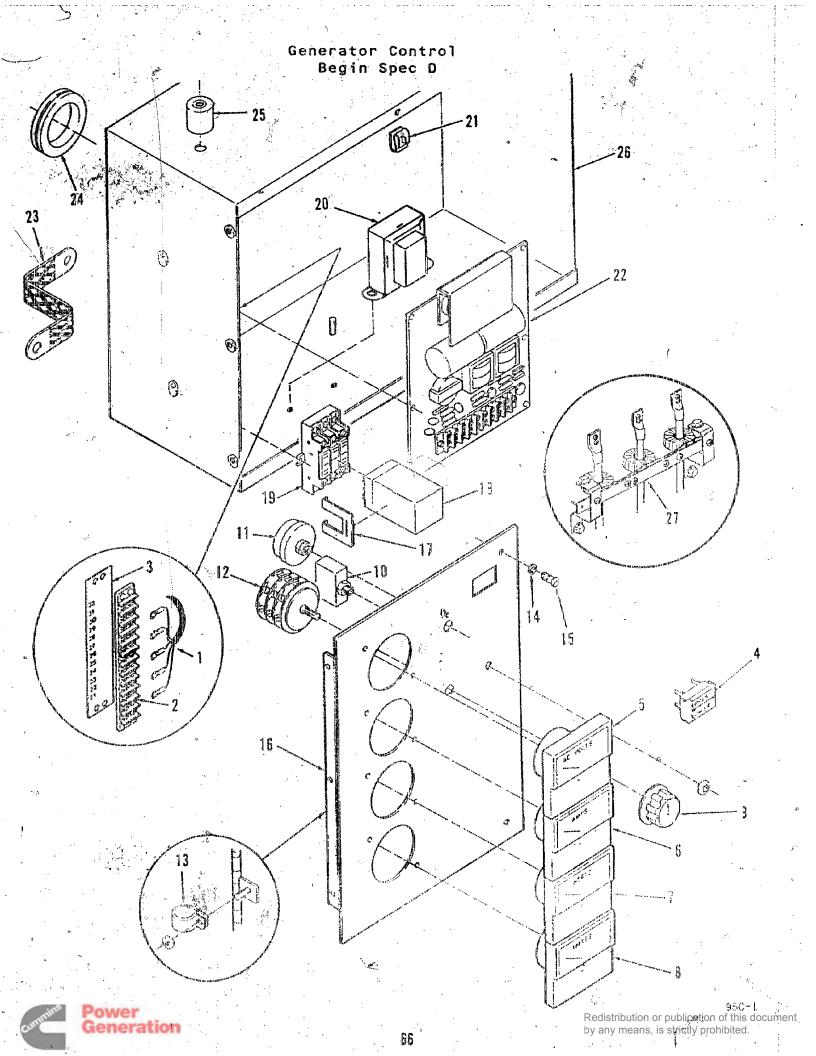
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	322-0017	1	Lamp, 24 VDC (DS11)	29	813-0100	4	Screw, Machine - Round Head
2	322-0149	1 - 1	Light, Panel	⁶	• • •		(#10−32 × 1/2 ")
3	308-0002	1	Switch, Toggle (S11)		850-0030	4	Washer, Lock - Spring (#10)
4		3	Spring, Holdown - Relay		301-3588	1	Rack
5		. 1	Relay, Ignition (K12)		357-0018	1	Diode with Terminals
	307-1056	1	Relay, Start Disconnect (K11)	33	813-0098	2 🔪	Screw, Machine - Round Head
.7		1	Relay, Start Protection (K14)	24	950-0020	2	(#10-32 x 3/8") Washer, Lock - Spring (#10)
8 9		3 1 ···	Resistor, Gauge (R11,R12,R13) Gauge, Pressure - Oil, 12 VDC		850-0030 526-0009	2 2	Washer, Flat (#10)
5	190 0240	1	(M11)		856-0003	2	Washer, Lock - EIT (#10)
10	193-0245	1	Gauge, Temperature - Water -	37	307-0061	1 -	
			12 VDC (M12)	38		-	Terminal, Ground
- 11	302-1362	. 1	Animeter (M13)		÷		(Includes Parts Marked *)
12		1	Gauge, Temperature - Oil -		871-0019	. 2	*Nut, Hex (#10-32)
	¢	в.	12 VDC (M14)		850-0030	1	*Washer, Lock - Spring (#10)
13	302-0749	• 1	Tachometer (M15)	•	526-0062	2	*Washer, Flat (#10)
14		1	Switch, Push - Lamp Test (\$13)	ł	853-0008	1	*Washer, Lock - ET (#10)
15			Switch, Toggle - Selector (\$12)		856-0003	1	*Washer, Lock - EIT (#10)
	308-0220	1	Standard		815-0203	1	*Screw-Mundrine - Round Head
	308~0347	1	Penn State	20	000 1000		(#10-32 x 7/8")
16	308-0539 `	1.	Alarm Control	39	332-1276 357-0004	7 2	Plug, Keying Diode (CR11, CR12)
16 -17		1 ·	Switch, Push - Alarm Reset (S14) Light, Indicator - 28 VDC	40	357-0004	2	@Harness, Wiring
11	322-0119	1	Overcrank (DS12)	41	338-0715	1 '	Set with Single Fault Light
	322-0120	1	Low Oil Pressure (DS14)		338-0705	1	Set with Five Fault Lights
	322-0121	. 1	High Engine Temperature (DS15)	42	323-0765	- 3	Socket, Relay/(Less Terminals
	322-0122	1	Low Engine Temperature (0816)		332-1280	11	Terrina
	322-0123	1.	Overspeed (DS13)	43	332-0537	2	Block, Teržinal (TB12,14)
	322-0129	. 1	Fault (DS12)	44	332-1005	1	Block, Terminal (TB11)
	322-0315	1	-Switch Off (DS17)	45	332-0699	1	Block, Termina ¹ (TB13)
	322-0137	. 1	Blank, No Legend	46	332-1271	7	Connector
18			Flasher, 24 VDC	47	332-1561	1	Strip, Marker
<i></i>	813-0105	1	Screw, Machine - Round Head	48	332-1239	1	Strip, Marker
			(#10-32 × 1")	49	332-1559	1	Strip, Marker
/ 19		1	Bracket, Mounting - Flasher	50	332-1560	1	Strip Marker
20	812-0063	Ľ.	Screw, Machine - Round Head		870-0053	. 1	Nut: Hex (#10-32) Washer, Lock - Spring (#10)
1 01	860-0006		$(\#6-32 \times 1/2^{\circ})$	52 53	850-0030 332-0051		Clamp, Loop
		4	⊴Nut, Hex (#6-32) ,Wašňer Lock – ET (#6)	52	815-0026	5	Screw, Machine - Truss dead
22		1	Cover	(J#1	010 0020		{#10-32 × 3/8"} 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
24		1. A	Control	55	870-0053	· 1	Nut, Hex (#10-32)
2 -7	300-0953	·	Board, Engine Monitor (A12)		850-0030	ī	Washer, Lock - Spring (#10)
	300-0954	1	Board, Engine Shutdown (All)	57	856-0003	1.	Washer, Lock - ET (#10)
	300-0955	1	Board, Remote Indicator (A13)	58	301-3621	、1. *	Bracket, Mounting
	300-0956	1	Board, Cyle Cranker (A14)	59			Panel, Control
	300-0957	1	Board, Overspeed Sensor (A16)				Single Fault Light Control
	300-0958	1	Board, Start Disconnet (A17)		301-3661	1	3 Meters, 1 Panel Light
	300-0973	1	Board, StartStop (A15)		301-3978	. 1	4 Meters, 1 Panel Light
	300-0977	1	Board, Standard Cranker (A14)		301-3979	1	5 Meters, 1 Panel Light
	300-0987	1	Board, Bypaes (A15)				Five Fault Light Control
25	812-0063	28	Screw, Machine - Round Head		301-3629 301-3976	. 1	3 Meters, 1 Panel Light
A.C.	000.0000	20	$(\#6-32 \times 1/2")$		301-3975	1 1	5 Maters, 1 Panel Light
	860~0006	28	Nut, Hex (#6−32) Washer, Lock - ET (#6)		0010hil	Ŧ	Six Fault Light Control
27	853-0003 323-0814	28 14	Guide	•	301-1079	1	3 Meters, 1 Panel Light
20	OFO DOTA	1 11 1	and the state of the			↓ 1	
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 Standard Harness Listed: Sets with 4 or 5 Meters and other special features may require additional electrical leads
 Parts Included in Ground Terminal.



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Generator Control Begin Spec D

REF NO.	PART NO.	QTY USED	PART DESCRIPTION	ref No.		QTY USED	PART DESCRIPTION
1	en de la companya de La companya de la comp	•	Harness, Wiring -	16			Door, Control
			(Includes Terminal Block)		301-9054-01	1	4 Meter Holes
	338-1818	1	Control with Meters		301-9054-02	1	3 Meter Holes
• •	°338-1853	1	Control without Meters		301-9054-03	1	No Meter Holes
	812-0065	2	Screw, Machine - Round Head (#6-32 x 5/8")	•	823-0004	3	Screw, Self-locking - Hex {#10-32 x 5/16")
2	332-0607	1	Block, Terminal (TB1)	17	307-1987	2	Clip, Relay
3	332-2723	1	Strip, Marker	18	307-10562	1	Relay, 24 VDC (K21)
4	322-0363	1	Light, Indicator, - Dual	19	323-0804	1	Socket, Relay
			(DS21, DS22)		815-0544	2	Screw, Machine - Round Head
5			Voltmeter (M21)				with IT Lock Washer
	302-1148	1	0-300/600 VAC, Code 17, 517		,	•	(#5-32 × 1/2")
	302-1753	1	0-750 VAC, Code 9	20	315-0642	1	Transformer, Step-down -
6	<u>,</u>		Ammeter (M22)			<i>.</i>	Code 9 Only (T21)
	302-1730	1	0-500 Amp, Code 9		812-0077	2	Screw, Machine - Round Head
	302-1729	1.	0-750/1500 Amp, Code 17, 517				(#8-32 × 3/8")
7	302-1720	1 -	Meter, Frequency (M23)		856-0002	2	Washer, Lock - ElT (#8)
- 8		1	Wattmeter (M24) (See	21	406-0332	2	Receptacle, Fastener
		0	Separate page for Components)	22	300-2880	1	Regulator, Voltage (VR21)
9	303-0032	1	Kncb		815-0544	6	Screw, Machine - Round Head
10			Breaker, Circuit (C321)				with IT Lock Washer
	320-1121	- 1	Standard				(#6-32 × 1/2")
	320-1438	1	With Aux Contact	23	337-0049	1	Strap, Electrical
11	303-0261	1	Rheostat (R21)		800-0024	1	Screw, Cap - Hex Head
12	308-0284	1	Switch, Rotary (S21)				$(5/16-18 \times 1/2")$
13	332-0052	1	Clamp, Loop		856-0008	* ^	Washer, Lock - EIT (5/16")
	870-0131	1	Nut, Self-locking - Hex with	24	£03-0051		Gronmer
	s		ET Lock Washer (#10-32)	Ξő	402-0527.	2	Mount, Vibration
14	405-0334	2	Clip, Fastener		8000045	4.5	Screw, Cap - Fex Read
15	406-0333	2	Stud, Fastener				(5/16-18 x 3/8")
	•				850-0045	đ.	Washer, Lock - Spring (5/16")
			No. 197	26	301-8365	1	Box, Control
			e ^{lv}	27		. 1	Current Transformer 👘 👘
							15an Sanshata Bana for

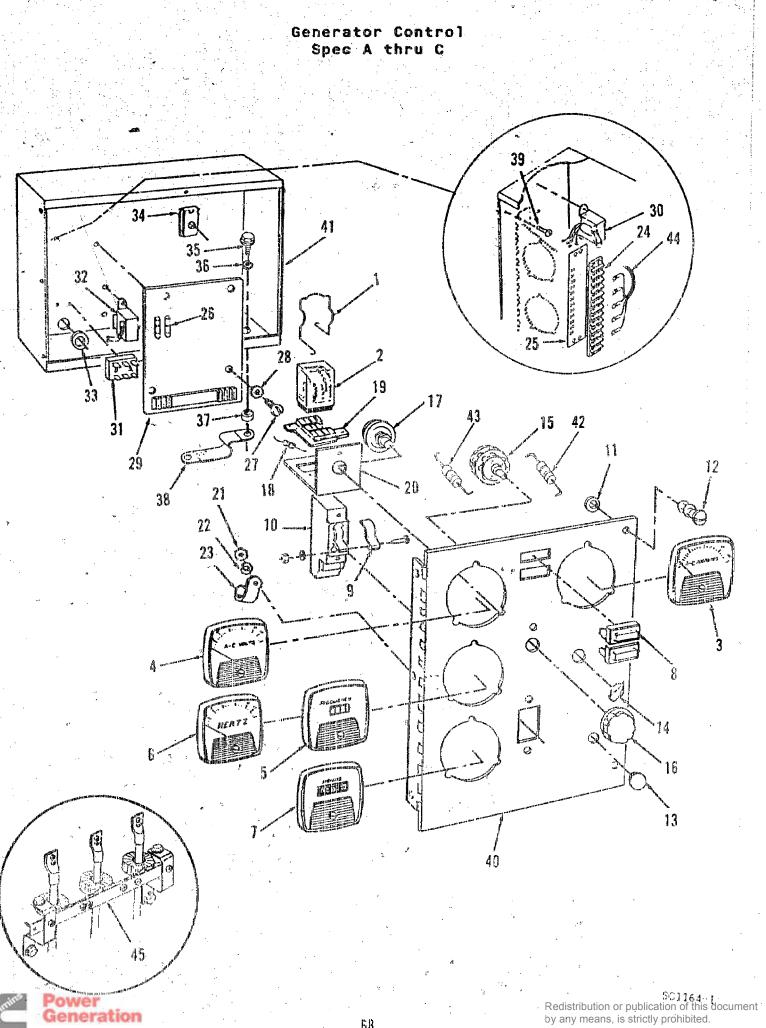
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Current Transformer (See Separate Page for Components)

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Power Generation

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Generator Control Spec A thru C

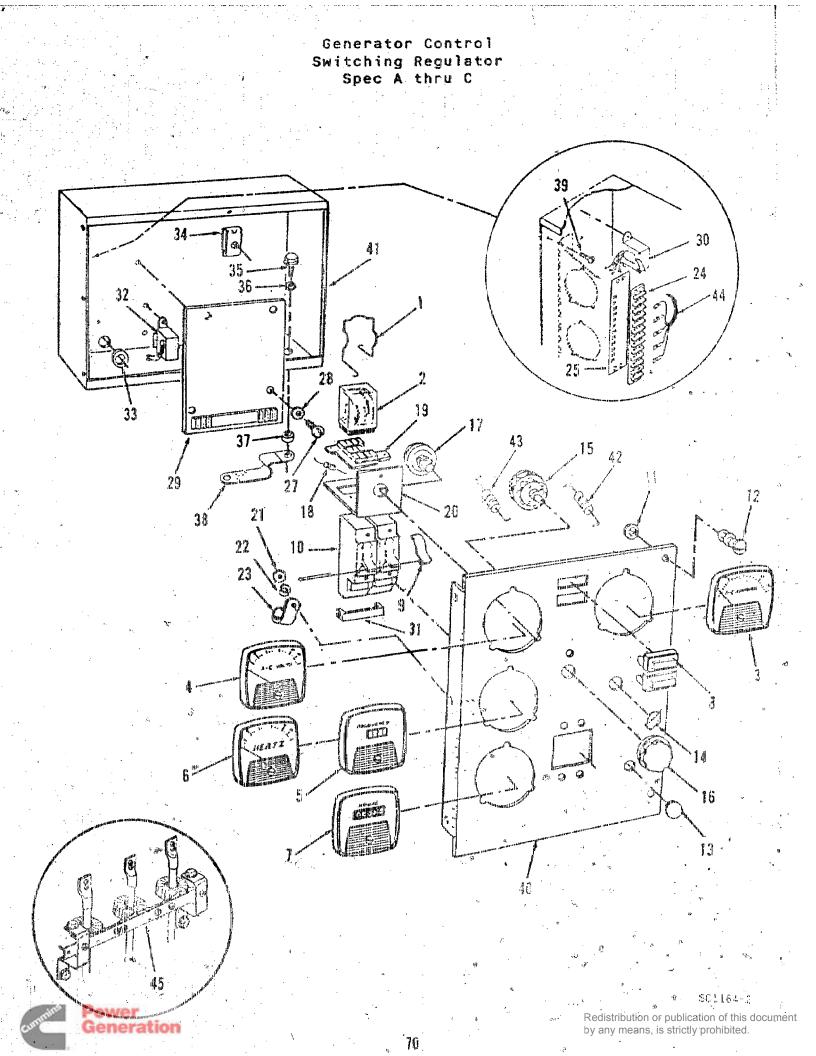
REF NO.	PART NO.	QTY USE		REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	307-1157	1	Spring, Relay	24			Block, Terminal (TB21)
2	307-1061	1	Relay (K21)		332-0607	1	12 Place
- 3			Ammeter (M21)		332-0795	1.	16 Place
	302-0414	1	0-500 Amp, Code 9		812-0066	2	Screw, Machine - Round Head
	302-0415	1	0-750 Amp, Code 6, 7				(#6-32 × 3/4")
	302-0640	1	0-1200 Amp, Code 5	•	853-0003	. 2	Washer, Lock - ET (#6)
	302-0879	- 1	0-600/1200 Amp; Code 517		850-0020	. 2	Washer, Lock - Spring (#6)
	302-0880	1	0-750/1500 Amp, Code 17	25			Strip, Marker
4			Voltmeter (M22)		332-1242	4, 	16 Place
	302-0421	1	0~300 VAC, Code 5		-332-1248	į.	12 Place
	302-0612	1	0-500 VAC, Code 7	26	321-0204	2 *	Fuse, Cartridge - 1/4 Amp
	302-0422	. 1	0-600 VAC, Code 6	27	812-0065	4	Screw, Machine - Round Head
	302-0779	1	0-750 VAC, Code 9				(#6-32 × 5/8")
	302-0718	1	0-300/600 VAC, Code 17, 517	28	853-0003	4	Washer, Lock - ET (#6)
5			Meter, Frequency - Reed (M23)	29			Regulator, Voltage (VR21)
	302-0221	1	230 VAC, 60 Hz - Code 5, 6,		332-1268	1	120 VAC Input Signal Req'd
			7, 9, 17		332-1956	1	240 VAC Input Signal Req'd
	302-0256	1	230 VAC, 50 Hz - Code 517	30		•	Transformer, Voltage (T21)
6	t		Meter, Frequency - Pointer (M23)		315-0342	1	120 VAC
	302-0810	1	208 VAC, 60 Hz - Code 7, 17		315-0431	1	240 VAC
	302-0811	1	240 VAC, 60 Hz - Code 5, 6, 9		812-0061	2	Screw; Machine - Round Head
	302-0894	1	240 VAC, 50 Hz - Code 517				(#6-32 × 3/8")
7.			Meter, Totalizing - Time (M24)		853-0003	2	Washer, Lock - ET (#6)
•	302-0466	1	60 Hz	31		1	Rectifier, Bridge (CR21)
•	302-0469	ŕ 1	50 Hz	-	812-0070	2	Screw, Machine - Round Head
8	002 0100	-	Light, Indicator - Red - 125 VAC				$(*6-32 \times 1-1/4")$
~	322-0130	1	Upper Scale (DS21)		850-0020	Ż	Washer, Lock - Spring (#6)
	322-0131	1	Lower Scale (DS22)		315-0384	ĩ	Reactor (L21)
9	320-0307	1	Lock, Handle	Q 1.	812-0061	ž	Screw, Machine - Round Head
2	815-0203	1	Screw, Machine - Round Head		922 0002	2.	(#6~32 × 3/8")
	010 0200		(#10-32 × 7/8")		853-0003	2	Washer, Lock - ET (#6)
	854-0010	. 1		33	508-0001	1	Grommet
	871-0010	· 1	Nut, Hex (#10-32)		406-0332	2	Receptacle, Fastener
10	320-0455	1	Breaker, Circuit (C821)	-	800-0045	4	Screw, Cap - Hex Head
10	812-0061	2	Screw, Machine - Round Head	00		-4	(5/15-18 × 3/8")
	012 0001		(#6-32 × 3/8")	36	850-0045	4	Washer, Lock - Spring (5/16')
	850-0020	2	Washer, Lock - Spring (#6)		402-0078	4	Dampener, Vibration
11	406-0334	2	Clip, Fastener	38	337-0049	1	Strap, Electrical + Ground
11		2			815-0026	2	Screw, Machine - Truss Head
12	406-0333		Stud, Fastener	59	014 0060		(#10-92 × 3/8")
13	517-0131	. 1	Plug, Plastic Knob, Pointer	40			Panel, Control
14	303-0076	1		40	301-3342	1	4 Meters: Code 5, 6, 7, 9
15 16	308-0284				301-3170	1	4 Meters, Code 17, 517
16	303-0032	1	Knob Dharabab (BCh)			1	S Maters, Code 57, 7, 7
17	303-0170	1	Rheostat (R21)		301-3443	1	S Maters, Code 17, 007
	350-0556	1	Resistor (R22)		301-3312	1	Box. Control
19	323-0765	1	Socket, Relay (Less Terminals)		301-3158	1	Resister (3.k Ohms)
	812-0061	2	Screw, Machine - Round Head		-350~009B	1	
		~	(#6-32 x 3/8")	43	350-0101	1.	Resistor (3.9k Onms)
	853-0003	2	Washer, Lock - ET (#6)	44	536 6000		Harbess, Wiring
	860-0005	- 2	Nut - Hex (#6-32)		338-0730	1	Code 17, 517
	332-1280		Terminal		338-0759	1	Code 5, 6, 9
	301-3244	- 1	Bracket, Moulting		338-0916	1.	Code 7
21	870-0053	· 1	Nut, Hex (#10-32)	45			Current Transformer
22	850-0030	1	Washer, Lock - Spring (#10)				(See Separate Page for
- 23	332-0051	1	Clamp, Loop	,			Components)
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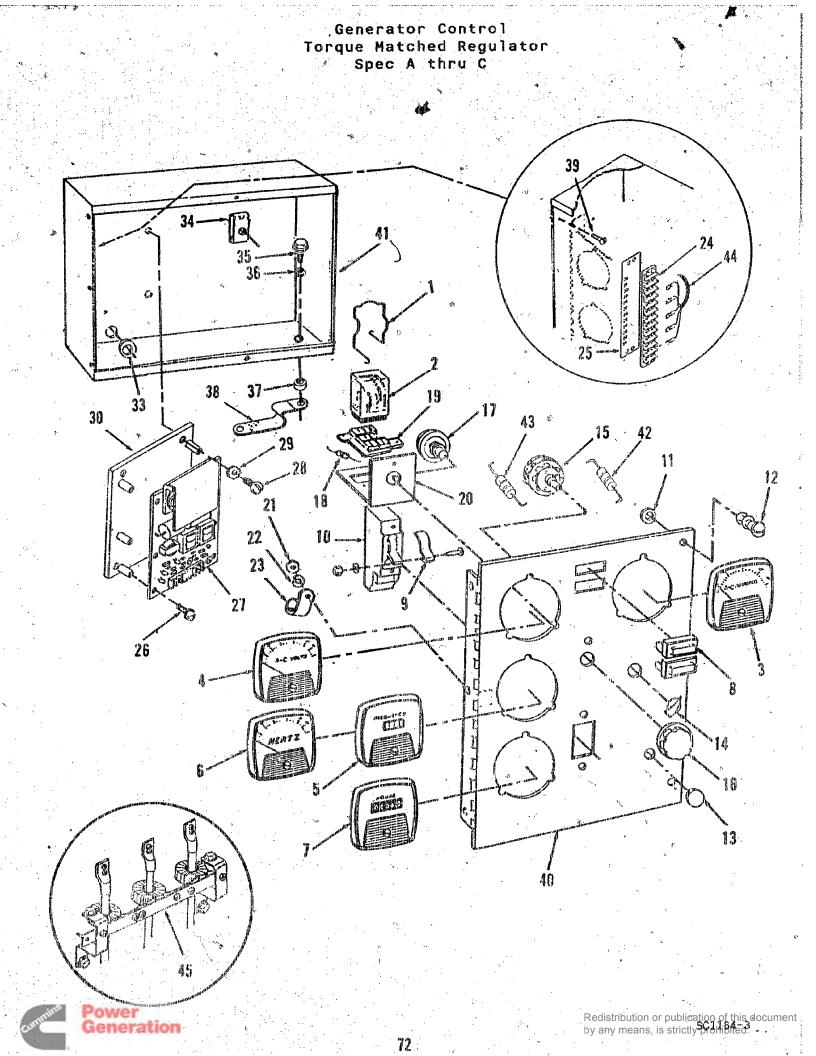


Generator Control Switching Regulator Spec A thru C

	REF NO	PART.NO.		QTY USED		REF NO.	PART NO.)TY ISED	PART DESCRIPTION
	1	307-1157		1	Spring, Relay	22	850-0030		1	Washer, Lock - Spring (#10)
1	2	307-1061		1	Relay (K21) Tests and the second second	23	332-0051		1	Clamp, Loop
	3		e ta a		Ammeter (M21)	24	and the second			Block, Terminal (TB21)
		302-0414	*	Ι.	0-500 Amp, Code 9	÷ .	332-0607		1	12 Place
۰.	· ·	302-0415		1	0-750 Amp, Code 6, 7	· · ·	332-0795		1	16 Place
		302-0640		1	0-1200 Amp, Code 5	· .	812-0066	· :	2 · .,	Screw, Machine - Round Head
		302-0879 302-0880		1	0-600/1200 Amp, Code 517		853-0003		2	(#6−32 × 3/4") Washer, Lock - ET (#6)
	۸.	302-0880		1	* 0-750/1500 Amp, Code 17 Voltmeter (M22)		850-0020	••••••	2	Washer, Lock - Spring (#6)
•	*	302-0421		1	0-300 VAC, Code 5	25	~		<i>~</i>	Strip, Marker
		302/0612		î	0-500 VAC, Code 7	20	332-1242		1	16 Place
•		302-0422		1	0-600 VAC, Code 6		332-1248		1	12 Place
'n		302-0779		1	0-750 VAC, Code 9	27	812-0065		4	Screw, Machine - Round Head
	. 4	302-0718		1	0-300/600 VAC, Code 17, 517					(#6-32 × 5/8")
	5				Meter, Frequency - Reed (M23)	28	853~0003	.*	4	Washer, Lock - ET (#6)
		302-0221		1	. 230 VAC, 60 Hz - Code 5, 6,	29				Regulator, Voltage (VR21)
2	·	`₩ <u>₿</u>			7, 9, 17	5 · ·	332-1956		1	Semi-Frequency Sensitive
	~	302-0256		1	230 VAC, 50 Hz - Code 517		332-2044		1	Voltage Sensitive
	6	000 0010			Meter, Frequency - Pointer (M23)		332-2045	· · · .	1	Frequency Sensitive
		302+0810		1	208 VAC, 60 Hz - Code 7, 17	30	315-0431		1	Transformer, Voltage (T21)
	:	302-0811 302-0894		1.	240 VAC, 60 Hz ~ Code 5, 6, 9	21	812-0061 320-0202	•	2 1	Screw, Måchine – Round Head Bart, Locking – with Thru Pin
	7	302-0694			240 VAC, 50 Hz - Code 517 Meter, Totalizing - Time (M24)	31	315-0384		1	Reactor (L21)
•	,	302-0466		1	60 Hz	02	812-0061		2	Screw, Machine - Round Head
		302-0469	1.1	1	50 Hz ~~~		012 0001		•	(#6-32 × 3/8")
	8	001 0100			Light, Indicator - Red - 125 VAC		853-0003		2	Washer, Lock - ET (#6)
	•	322-0130		1	Upper Scale (DS21)	33	808-0001		1	Grommet
		322-0131		1	Lower Scale (DS22)	34	406-0332		2	[°] Receptacle, Fastener
•	9.	320-0307		1	Lock, Handle	35	800-0045		4	Screw, Cap - Hex Head
	10	320-0455		2	Breaker, Circuit (CB21)					(5/16-18 × 3/8")
		812-0061		4	Screw, Machine - Round Head	36	850-0045		4	Washer, Lock - Spring (5/16")
				_	(#6-32 × 3/8")	37	402-0078		4	Dampener, Vibration
		850-0020		4	Washer, Lock - Spring (#6)	38	337-0049		1	Strap, Electrical - Ground
	11	406-0334		2	Clip, Fastener	39	815-0026		3	Screw, Machine - Truss Head (#10-32 x 3/8")
	12	406-0333		2	Stud, Fastener	40				Panel, Control
	13 14	517-0131 303-0076	41 . 1	1 1	Plug, Plastic Knob, Pointer	40	301-6298		1	4 Meters, Code 17, 517
	15	303-0070		j.	Switch, Selector (\$21)	۰.	301-6412		1	4 Meters, Code 5, 6, 7, 9
	16	303-0032		1	Knob	÷	301-8775		1	5 Meters, Code 17, 517
	17	303-0170		1	Rheostat (R21)	41	301-3158		1	Box, Control
	18	350-0556	·	1	Resistor (R22)	42	350-0098		1	Resistor (3.k Ohms)
	19	323-0765		1	Socket, Relay (Less Terminals	43	350-0101		1	Resistor (3.9k Ohms)
		812-0061		2	Screw, Machine - Round Head	44	•	0		Harness, Wiring
					(#6-32 × 3/8")		338-0730		1	Code 17, 517
		853-0003		2	Washer, Lock - ET (#6)		338-0759		1	Code 5, 6, 9
		860-0005		2	Nut, Hex (#6-32)		338-0916		1	Code 7
		332-1280		11	Terminal	45				Current Transformer
	de uite	من من من								(See Separate Page for
	20	301-3244		1	Bracket, Mounting		· .			Components)
4	21	870-0053		1.	Nut, Hex (#10-32)					

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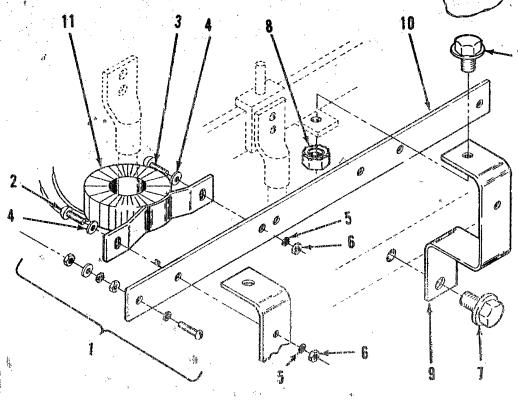
Generator Control Torque Matched Regulator Spec A thru C

		s ≰					
REF NO.		QTY USED	PART CESCRIPTION	REF NO.		QTY USED	PART DESCRIPTION
1		1	Spring, Relay	20		1	Bracket, Mounting
2	307-1061	1		21	870-0053	1	Nut, Hex (#10-32)
3	· · · ·	6 •	Ammeter (M21)		850-0030	1	Washer, Lock - Spring (#10)
	302-0414	1	0-500 Amp, Code 9	23	332-0051	1	Clamp, Loop
:	302-0415	1	0-750 Amp, Code 6, 7	24	•		Block, Terminal (1821)
•	302-0640	1	0-1200 Amp, Code 5		332-0607	1	12 Place
	302-0879	1	0-600/1200 Amp, Code 517	•	332-0795	1	16 Place 🤲
A	302-0880	1	0-750/1500 Amp, Code 17 Voltmeter (M22)		812-0066	2,	Screw, Machine - Round Head {#6-32 x 3/4")
. 4	-302-0421	1	0-300 VAC, Code 5		853-0003	2	Washer, Lock - ET (#6)
	302-0612	1	0-500 VAC, Code 7	. ·	850-0020	2	Washer, Lock - Spring (#6)
	302-0422	. 1	0-600 VAC. Code 6	25	000 0000	*-	Strip, Marker
	302-0779	1	0-750 VAC, Code 9	1	332-1242	1	16 Place
	302-0718	1	0-300/600 VAC, Code 17, 517		332-1248	1	12 Place
5	302-0710		Meter, Frequency - Reed (M23)	26	815-0544	6	Screw, Machine - Round Head
5. 	302-0221	1	 230 VAC, 60 Hz - Code 5, 6, 7, 9, 17 		010 0044		with IT Lock Washer (#6-32 x 1/2")
	302-0256	1	230 VAC, 50 Hz - Code 517	27	300-2880	1.	Regulator, Voltage (VR21) «
6	001 0100	· .	Meter, Frequency - Pointer (M23)		812-0065	4	Screw, Machine - Round Head
. 0	302-0810		 208 VAC, 60 Hz - Code 7, 17 	.20	015 0000		(#6-32 × 5/8")
	302-0810	4	240 VAC, 60 Hz - Code 5, 6, 9	20	853-0003	4	Washer, Lock - ET (#6)
	302-0894	1	240 VAC, 50 Hz - Code 5, 6, 9 240 VAC, 50 Hz - Code 517	30	301-9315	1	Bracket, Mounting
7	302-0094	1		33	508-0001	1	Grommet
'	200 0406	4	Meter, Totalizing - Time (M24)		406-0332	2	Receptacle, Fastener
	302-0466	1	60 Hz	34 35	800-0045	2.	Screw, Cap - Nox Sead
8	302-0469	.	50 Hz Light, Indicator - Red - 125 VAG		000-0040	4	$(5/16-18 \times 3/8")$
-	322-0130	1	Upper Scale (DS21)	36	850-0045	4	Washer, Lock - Spring (5/16")
	322-0131	ĩ	Lower Scale (DS22)	37	402-0078	4.	Dempener, Vibration
<u> </u>	320-0307	<u> </u>	Lock, Handle	38	337-0049	1	Strap, Electrical - Ground
	815-0203	1	Screw, Machine - Round Head (#10-32 × 7/8")		815-0026	. 3	Screw, Machine - Truss Head (#10-32 x 3/8")
	854-0010	1 .	Washer, Lock - ET (#10)	40			Panel, Control
	871-0010	1	Nut, Hex (#10-32)		301-3342	· 1	4 Meters, Code 5, 6, 7, 9
10		· ĩ	Breaker, Circuit (CB21)		301-3170	1	4 Meters, Code 17 517
4.4	812-0061	2	Screw, Machine - Round Head	御	301-3449	1	5 Meters, Code 5, 6, 7 9
	012 0001	-	(#6-32 × 3/8")		301-3312	1	5 Meters, Code 17, 517
•	850-0020	2	Washer, Lock - Spring (#6)	41	· · · · · · · · · · · · · · · · · · ·	1	Box, Control
11	406-0334	. 2	Clip, Fastener	\$2		1	Resistor (3.k Ohms)
12	406-0333		Stud, Fastener	43	350-0101	1	Resistor (3.9k Ohms)
13	517-0131		Plug, Plastic	44		_	Harness, Wiring
14	303-0076	ī	Knob, Pointer		338-0730	. 1	Code 17, 517
	308-0284	i	Switch, Selector (S21)		338-0759	1	, Code 5, 6, 9
16		1.	Knob		338-0916	ĩ	Code 7
		1	Rheostat (R21)	45	000 0010	4-	Current Transformer
	4303-0170 350-0556	. 1	Resistor (R22)		÷		(See Separate Page for
18		1. 1					Components)
19	323-0765		Socket, Relay (Less Terminals				sy surveyjutseta (hurkkis, keigi , Si
	812-0061	2	Screw, Machine - Round Head (#6-32 x 3/8")				s
· ·	853-0003	2	Washer, Lock - ET (#6)			,e 14	et an Alexandre Ale
	860-0005	2	Nut, Hex (#6-32)				
		11	Terminal	•			in a star in the s
	332-1280	A A .	4 GH UF (110) (· · · · · ·
•		,					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1



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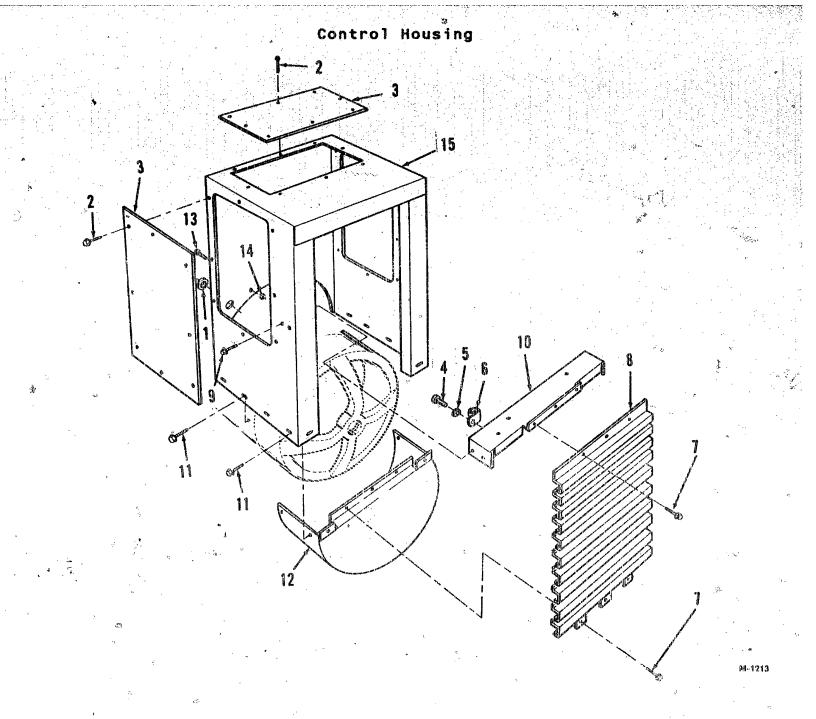
REF NO.	PART HO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	· .		Terminal, Ground	6	870-0053	6	Nut, Hex (#10-32)
-	815-0203	1	Screw, Machine - Round Head (#10~32 x 7/8")	7 .	821-0029	4	Screw, Self-locking - Hex (3/8-16 x 3/4")
· · · ·	871-0010	3 <mark>3</mark> ∗ 1	Nut, Hex (#10-32) Washer, Lock - EIT (#10)	8	870-0281	4	Nut, Self-locking - Hex (3/8-16)
a	854-0010	2	Washer, Lock - IT (#10)	9	232-2342	2	Bracket, Mounting
	526-0049	2	Washer, Flat - Brass (#10)	10	315-0389	1	Plate, Mounting
2	813-0103	2	Screw, Machine - Round Head (#10-32 x 3/4")	11	е ⁴		Transformer, Current with Mounting Feet
3	813-0100	4	Screw, Machine - Round Head		302-0547	3	500/5, 2VA - Code 6, 9X
			$(#10-32 \times 1/2")$		302-0876	3	600/5, 2VA - Code 517,
۵	5260008	6	Washer, Flat (#10)		302-0471	Э	750/5, 2VA - Code 7, 17
5	856-0003	6	Washer, Lock - EIT (#10)		302-0643	3	1200/5, 2VA - Code 5

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Power Generation

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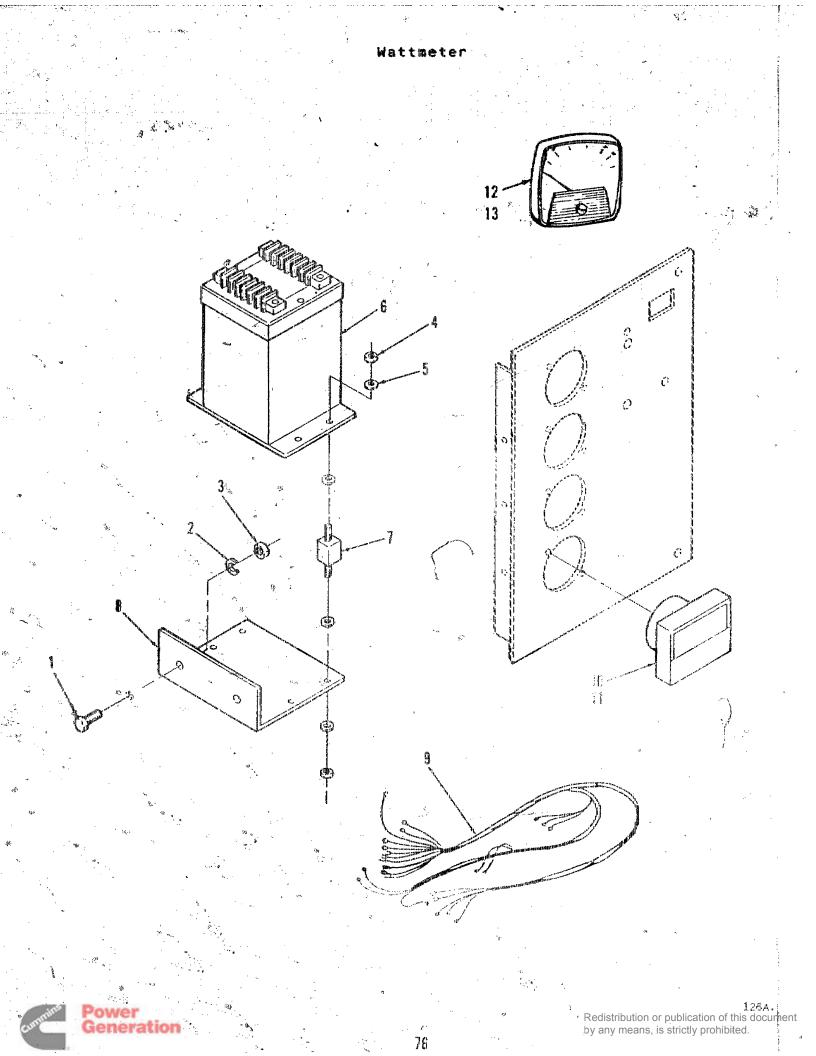
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REF NO.	PÁRT NO.	QT) USE		REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1			Bushing, Grommet -	8	234-0490	· <u>1</u> ·	Grille
*	508-0203	1	Used Thru 1984	9	821-0010	4	Screw, Self-locking - Hex
	508-0051	ī	Begin 1985	10	301-3604	1	Shelf
2	821-0010	24	Screw, Self-locking - Hex (1/4-20 x 1/2")	11	821-0014	10	Screw, Self-locking - Hex (5/16-18 x 1/2")
3	301-3731	. 3	Panel, Access	12	234-0489	1	Cover, End Bell
. 4	813-0102	1	Screw, Machine - Round Head (#10-32 x 5/8")	13	821-0016	2	Screw, Self-locking - Hex (5/16-18 x 3/4")
5	850-0030	1	Washer, Lock - Spring (#10)	14	870-0257	2	Nut, Self-locking - Hex
6	332-0052	3	Clamp, Loop'				(5/16-18)
7	821-0010	6	Screw, Self-locking - Hex (1/4-20 x 1/2")	15	301-3605	1	Housing, Control



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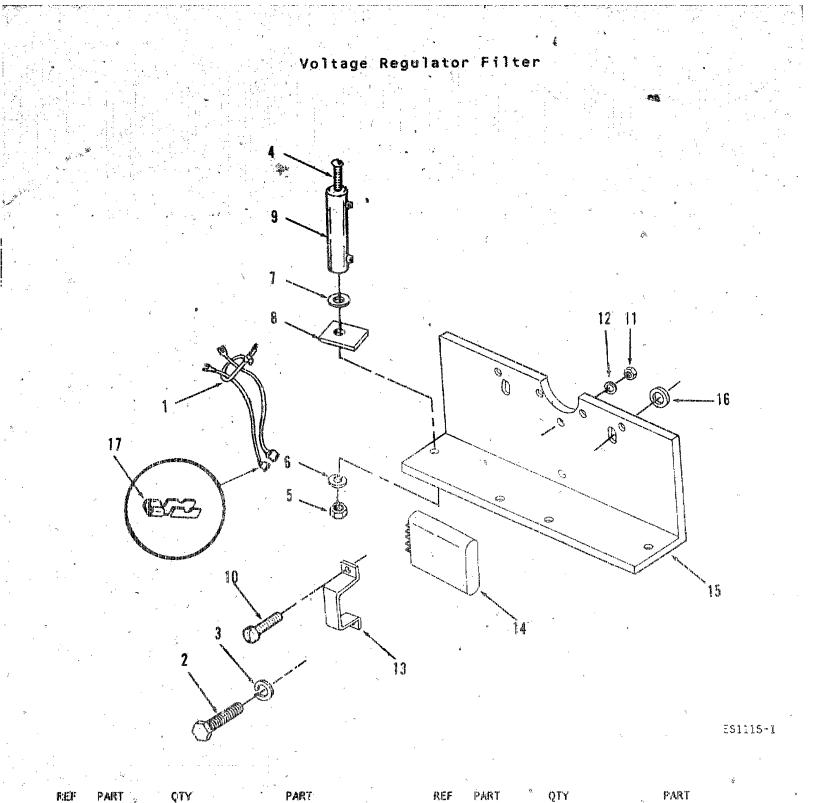
Wattmeter

	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
	1	821-0017	2	Screw Self-locking - Hex	8	301-6987	1	Bracket, Mounting
. 1	.	050 0045	, .	(5716-18 × 1/2")	9	338-1936	1	Harness, Wiring
• *	2	850-0045	2	Washer, Lock - Spring (5/16")	¥ 10	302-1722	1	Wattmeters (Less Dial) -
	3	862-0014	- 2	Nut, Hex (5/16-18)	•			Begin Spec D
6	4	860-0008	.8	Nut, Hex/(#8-32)	14	302-1721-11	1	Dial (Scale 0-350 kW)
	5	856-0002	16	Washer, Lock - EIT (#8)	12	302-1102	1	Wattmeter (Less Dial) -
		302-1082	1 .	3 Phase, 60 Hz			-	Spec A thru C
		302-1083	ī	B Phase, 50 Hz	13	301-1117	1 .	Dial (Scale 0-350 kW)
	7	402-0078	4	Mount, Vibration				a lat (obaile o ood kity

Power Generation

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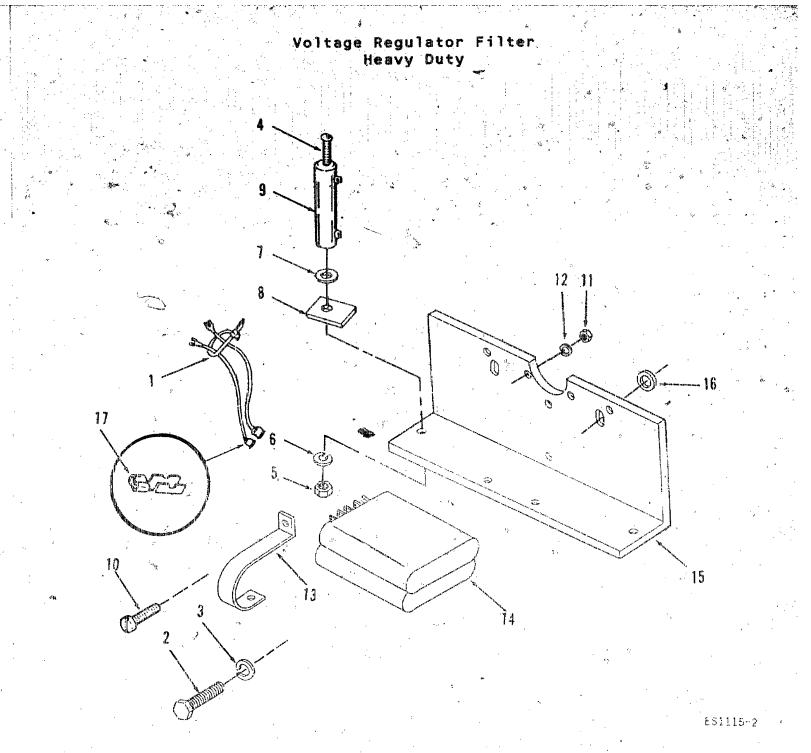


NO.	NO.	USED	DESCRIPTION
1	332-0941	5	Tie, Cable ⁶
2	800-0003	2	Screw, Cap - Hex Head
	1 - C. S.		$(1/4-20 \times 1/2^{*})$
3	850-0040	2	Washer, Lock - Spring (1/4")
4	812-0165	2	Screw. Machine - Round Head
			(1/4-20 x 4-1/2 ⁺)
51	962-0001	2	Nut, Hex (1/4-20)
6	950-0040	2 /	Washer, Lock - Spring (1/4")
7	304-0427	2	Washer, Centering
8	304-0595	2	Insulator
9	354-0025	1	Resistor

NO.	PART NO.	USED	DESCRIPTION
10	813-0098	2	Screw, Machine - Round Head (#10-32 x 3/8")
11	870-0053	2	Nut, Hex (#10-32)
12	850-0030	2	Washer, Lock - Spring (#10)
13	312-0189	ĭ	Bracket, Mounting
	312~0168	1	Capacitor
15	232-2218	1	Bracket
	526-0018	15	Washer, "lat (1/4")
16 17			Terminals
	332-0529	4	Bare
	332-1279	8	Insulated



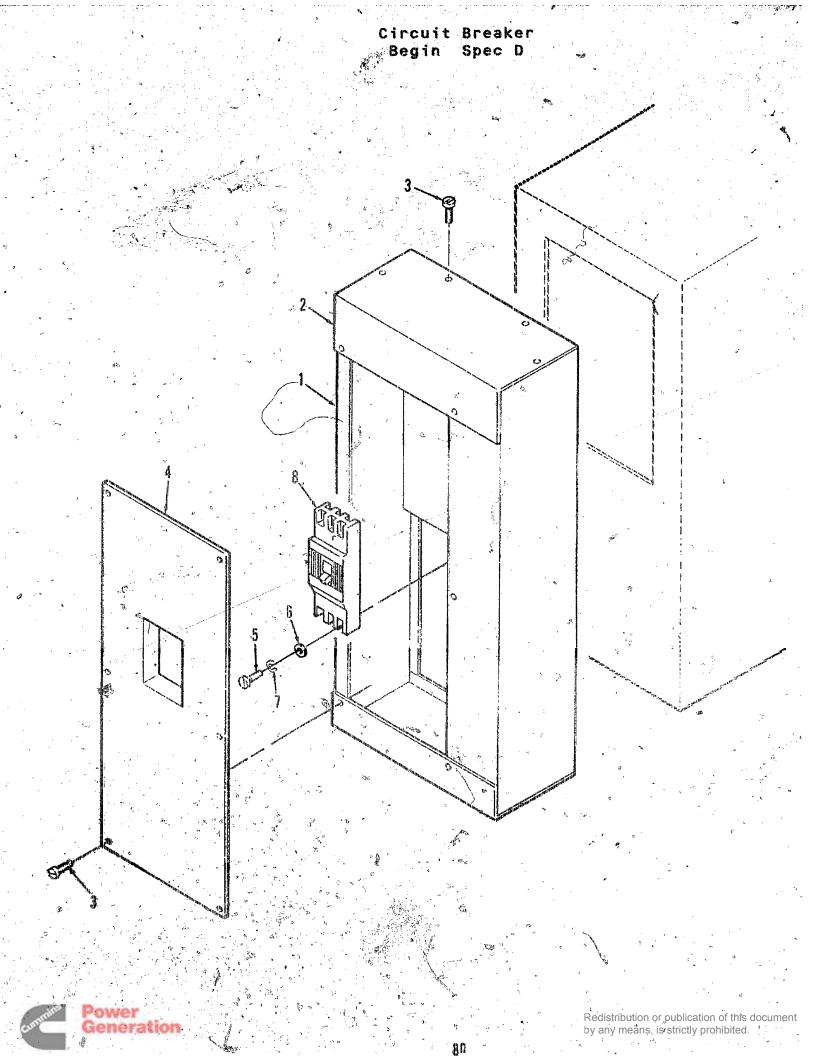
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						1	
REF	PART	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
1 2	332-0941 800-0003	5 2	Tie, Cable Screw, Cap - Hex Head	10	813-0 098	4.	Screw, Machine - Round Head (#10-32 x 3/8")
。3 4	850-0040 812-0165	2 2	(1/4-20 x 1/2") Washer, Lock - Spring (1/4") Screw; Machine - Round Head	1) 12 13.	870-0053 850-0030 370-0003	4	Nut, Hex (#10-32) Washer, Lock - Spring (#10) Strap, Mounting
	862-0001 850-0040	2 2	(1/4-20 x 4-1/2") Nut. Hex (1/4-20) Washer, Lock - Spring (1/4")	15	-312-0188 202-2238 526-0018	2	-Copacitor Anachet Washer, Flat (1941)
	304-0427 304-0292 354-0025	2	Washer, Centering Insulator Resistor		332-0529 332-1 219	8	forminals Bare Insulated
					and a segur .		n na haran tagi kataki yang na

Power Generation

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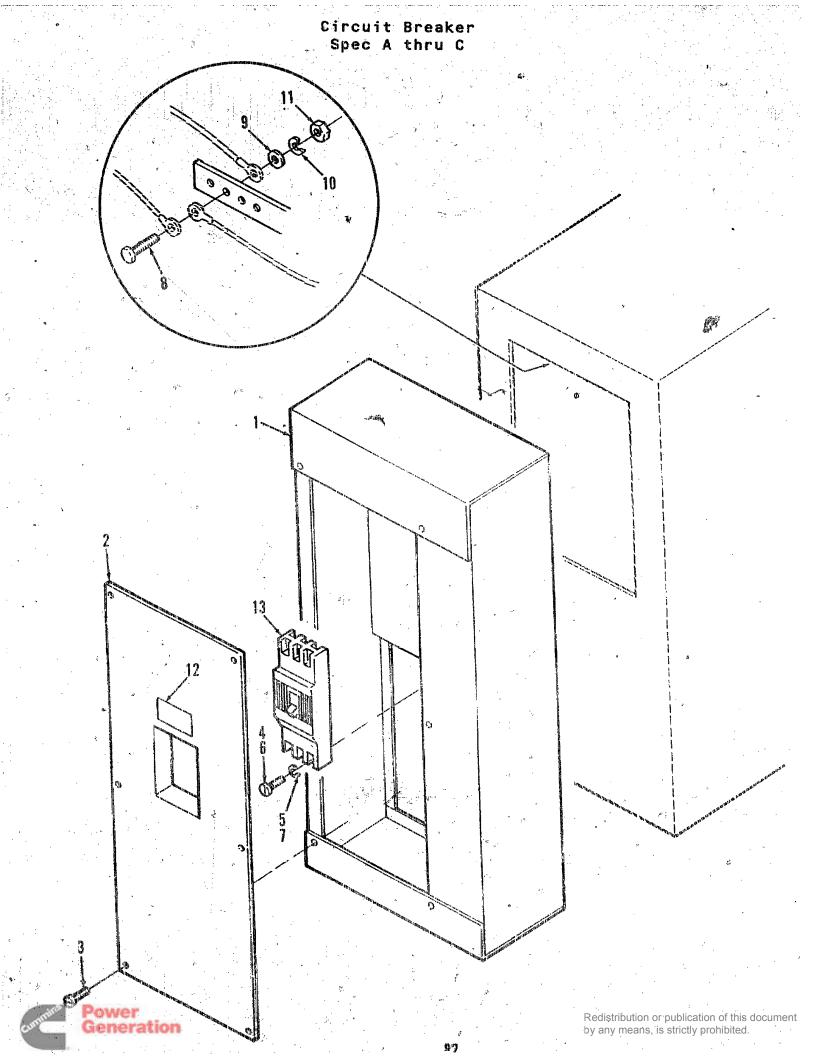


Circuit Breaker Begin Spec D

	REF NO.	PART NO.	QTY USED	PART DESCRIPTION	REF NO.	PART NO.	OTY USED	PART DESCRIPTION
N Ki	1	301-9778	1	Box, Breaker		320-1480-11	1	500 Amp
×.	2	301-9779	2	Pånel, Breaker	4	320-1480-12	1	600 Amp
	3	821-0010	8	Screw, Self-locking - Hex	(14	320-1481-07	1	700 Amp
				$(1/4-20 \times 1/2^{\circ})$		320-1481-08	1	800 Amp
1	a 4	301-9781	1	Cover, Box - Circuit Breaker 3" x 4" Breaker Hole		320-1481-09		1000 Amp 1200 Amp
		301-9793	1	2-1/2" x 3-5/8" Breaker Hole	, i	320-1481-10	<u> </u>	With 480 VAC Shunt Trip
	;5	001 0100	/ *	Screw, Mounting		320-1484-09	1	400 Amp
	10	812-0157	4	400 - 600 Amp Breaker		320-1484-10	1	450 Amp
		800-0031	4	700 - 1200 Amp Breaker		320-1484-11	1	500 Amp
4	°6	P.60 6100		Washer, Flat		320-1484-12	1	600 Amp
1.1	.`	526-0108 526-0115	4	400 - 600 Amp Breaker 700 - 1200 Amp Breaker	·	320-1485-07 320-1485-08	1	700 Amp 800 Amp
	7	020 0110		Washer, Lock	4	320-1485-08	1	1000 Amp
· 		850-0040	4	400 - 600 Amp Breaker		320-1485-10	1	1200 Amo
		850-0045	4	700 - 1200 Amp Breaker	i ser			With 12 VDC Shunt Trip &
	8			Breaker, Circuit - 3 Pole -	· · . `			Auxiliary Contacts
	·	200-1460-00	4	Standard	• ·	320-1488-09	1	400. Amp
		320-1460-09 320-1460-10	1 1	400 Amp ⁶ 450 Amp		320-1488-10 320-1488-11	1	450 Amp 500 Amp
. *		320-1460-11	1 ₁ .			320-1488-12	1	600 Amp
	•	320-1460-12	1.			320-1489-07	1	700 Amp
۰.		320-1461-07	1	700 Amp		320-1489-08	1	800 Amp
		320-1461-08	1	800 Amp		320-1489-09	1	1000 Amp
		320-1461-09 320-1461-10	1	1000 Атр 1200 Атр		320~1489-10		1200 Amp With 21 VCC Shunt Trip &
		020-1401-10	J.	With Auxiliary Contacts				Auxiliary Contacts
		320-1464-09	1	400 Amp		320-1491-09	1	400 Amp
		320-1464-10	1	450 Amp		320-1491-10	1	450 Amp
		320-1464-11	1	500 Amp		320-1491-11	1	500 Amp
		320-1464-12 320-1465-07	1	600 Amp 700 Amp		320-1491-12 320-1492-07	1	600 Amp 700 Amp
		320-1465-08	1.	800 Amp		320-1492-08	1	'800 Amp
	÷ .	320-1465-09	1	1000 Amp		320-1492-09	1.	1000 Amp
		320-1465-10	1.	1200 Amp		320-1492-10	1	1200 Amp
		000 1400 00		With 12 VDC Shunt Trip			• •	With 120 VAC Shunt Trip &
		320-1468-09 320-1468-10	. 1 1	400 Amp 450 Amp		320-9495-09	1	400 Amp
		320-1468-11	1	500 Amp	2	320-1495-10	1	450 Amp (
		320-1468-12	1	600 Amp	, îs	320-1495-11	1	500 Amp -
		320-1469-07	1	700 Amp		320-1495-12	' i	600 Amp
		320-1469-08	1	800 Amp		320-1496-07	1	700 Amp
· • •	· · ·	320-1469-09 320-1469-10	1 1	1000 Amp 1200 Amp		320-1496-C8 320-1496-C9	1	800 Amp 1000 Amp
		020 1403 10	1.	With 24 VDC Shunt Trip		320-1496-10	i	1200 Amp
	ч.	320-1472-09	1	400 Amp				With 240 VAC Shunt Trip &
	5 ¹⁷ (1	320-1472-10	1	450 Amp				Auxiliary Contacts
- ÷.	ŝ, s	320-1472-11	1	500 Amp		320-1500-09	1	400 Amp
	. ·	320-1472-12 320-1473-07	ີ1 1	600 Amp 700 Amp		320-1500-10 320-1500-11	1	450 Amp 500 Amp
		320-1473-08	1	800 Amp	.•	320-1500-12	1	600 Amp
		320-1473-09	- 1	1000 Amp		320-1501-07	1	700 Amp
۴		320-1473-10	1 `	1200 Amp		320-1501-08	1	800 Amp
				With 120 VAC Shunt Trip		320-1501-09	1,	1000 Amp
		320-1476-09 320-1476-10	1	400 Amp Janual 450 Amp		329-1501-10	1	1200 Amp With 480 VAC Shunt Trip & 🌱
		320-1476-11	1	450 Amp	`	and the second second		Auxiliary Contests
		320-1476-12	í.	600 Amp		320-1504-09)	400 Amp
		320-1477-07	1	700 Amp		320-1504-10	1 .	450 Anp
	•	320-1477-08	1	800 Amp		320-1504-11	1	500 Amp
<i>.</i>		320-1477-09	1 -	1000 Amp		820-1504-12 220-1505-07	1	8 600 Amp 2 2 700 Amp 2
n+		320-1477-10	1	1200 Amp With 240-VAC Shunt Trip		320-1505-07 320-1505-08	1.	800 Anp
		320-1480-09	1	400 Amp		320-1505-09	.1	1000 Amp
	۰.	320-1480-10	1	450 Amp		320-1505-10	1	1200 Amp
		<i>3</i> 1	· . ·					
	de la					(2)	- 87 <u>1</u> - 8	A DECEMBER OF

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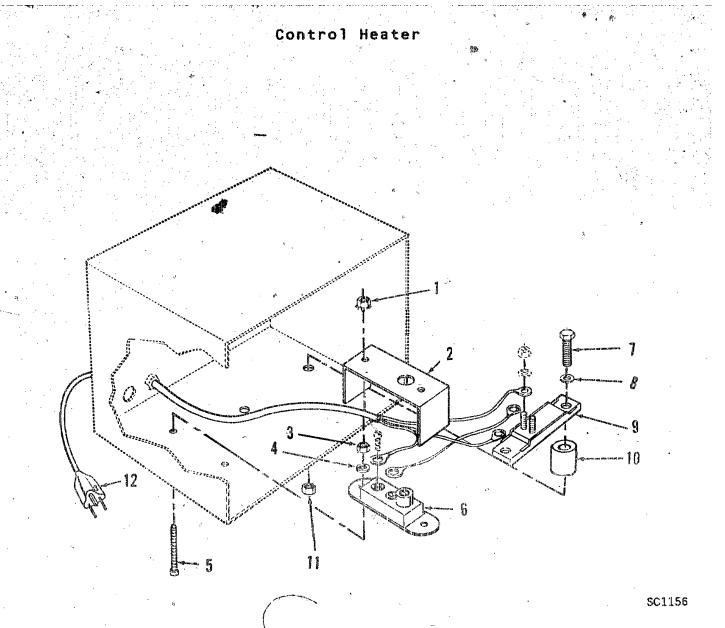
Circuit Breaker Spec A thru C

•						
REI NO		QTY USED	PART DESCRIPTION	REF PART NO. NO.	QTY USED	PART DESCRIPTION
1	301-3728	1	Box, Breaker		With	Auxiliary Contacts
2	301-9139	1	Cover, Breaker	320-1232	1 450	
· 3	815-0026	6	Screw, Machine - Truss Head	320-1305	1 600	Amp
		e stje	(#10-32 × 3/8")	320-1562		Amp
. 4	812-0156	4	Screw, Machine - Round Head	320-1445	1 900	Amp
5	850-0040	4	$(1/4-20 \times 1/2")$			
6	812-0182	4	Washer, Lock (1/4")	200 0045		12 VDC Shunt Trip
U	012 0102	₂ 4	Screw, Machine - Round Head (5/16-18 x 1-1/2')	320-0245	1 500	
7	850-0045	4	Washer, Lock (5/16)	. 320-0267	1 500	Amp
Ŕ	800-0071	8	Screw, Cap - Hex Head		1.1.1	A4 1156 61
Ū.	000 001_	0	(7/16-14 × 1")	320-0403		24_VOC Shunt Trip
G	526-0141	8	Washer, Flat (7/16")	320-0403		Amp
10	850-0055	8	Washer, Lock (7/16")	320-0436		Amp
11	862-0004		Nut, Hex (7/16-14)	320-0466		Amp
12	98-2304	1	Silkscreen, Circuit Breaker	320-0517		Amp
A 64	. 00 2004	L	(Warning)	320-0576		Amp 0 Amp
13			Breaker, Circuit - 3 Pole -	320-0370	1 100	и мпр
			Standard		ulie b	120 VAC Shunt Trip
	320-0625	1	450 Amp	320-0236		Amp, `
	320-0598	1	500 Amp	320-0386	1 600	
•	320-0599	. 1	600 Amp .	320-0213		Amp
	320-0518	1	700 Amp	520 0215		omp
	320-0519	ī	800 Amp		laith	480 VAC Shunt Trip
	320-0520	ĩ	900 Amp	320-0398		Amp
	320-0521	1	1000 Amp	320-0338		Amp
	320-0522	ī	1200 Amp	320-0396		Amp [*]

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Power

Generation



REF	PART NO.	QT¥ USED	PART DESCRIPTION	REF NO.	PART NO.	QTY USED	PART DESCRIPTION
1	870-0183	2	Nut, Self-locking - Hex (#5-32)	7	800-0034	2	Screw, Cap - Hex Head (5/16-18 x 2-1/4")
້ 2	301-1886	1	Cover	8	526-0113	2	Washer, Flat (5/16")
3	860-0006	1.	Nut, Nex (#6-32)	9	333-0151	1	Heater, Electrical
- 4	854-0006	2 .	Washer, Lock ~ IT (#6)	10	130-1107	2	Spacer
- S	812-0070	2	Screw, Machine - Round Head (#6-32 x 1-1/4")	11	870-0257	2	Nut, Self-locking - Hex (5/16-18)
۰ ⁶	309-01,28	1	Thermostat, Adjustable	12	335-0161	1	Cable, Electrical

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960-1012 (8-79)

SUPPLEMENTARY PARTS LIST

This Supplementary Parts List Applies to the Standard LDFN Models listed below. Use these parts in place of/or in addition to those listed in the Main Parts Catalog 960-0221.

ELECTRIC GENERATING SET DATA TABLE

nyzelek (jan serienekiada aseleneka kondaka kondaka kondaka kondaka kondaka kondaka kondaka kondaka kondaka kon Ny	ELECTRICAL DATA				
MODEL AND SPEC NO	WATTS	VOLTS	HERTZ ,	PHASE	
286.0 LDFN-520R/*	286,000	220/380		3	
286.0 LDFN-522R/*	286,000	240/416-254/440	50	3	
334.0 LDFN-4XR/*	334,000	277/480	60	3	

- The Specification Letter Advances (A to B, B to C, etc.) with Manufacturing Changes.

REPLACEMENT ENGINE

100-1586





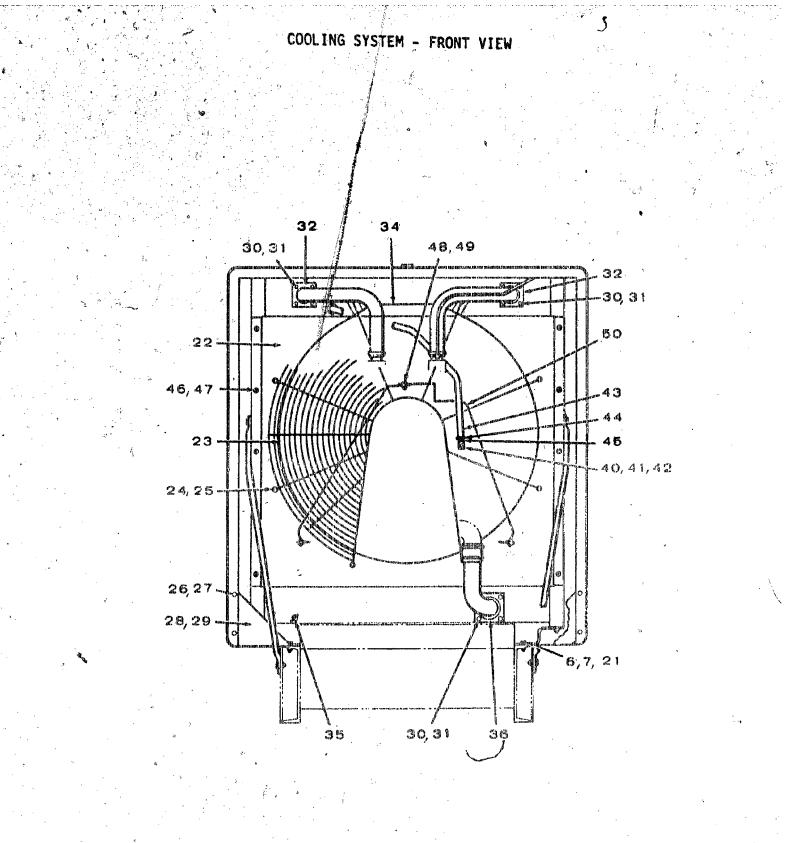
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Engine, Replacement (Cummins KTA 1150G)

COOLING SYSTEM

			ATHO STSTEM	
RIF. NO.	PART NO.	QTY	<u>USED</u>	PART, DESCRIPTION
r	130-1358	*	2	Adapter, Inlet Tube
2 *	130-1194		2	Gasket, Inlet Tube
3	821-0016		6	Screw, Cap Locking Head
	•			(5/16-18 X 3/4" Long)
4	870-0257	- 1	10	Nut, Hex Self Locking - (5/16-18)
5	130-1353	. 1934 c.	1	Tube, Radiator Inlet - (R.H.)
.6	.130-1354	÷	1	Tube, Radiator Inlet - (L.H.)
5 5 m 7	501-0087		1	Line, Flex
. 8	502-0184		1	Connector, Male
ા ગેવું હોય છે.	503-0625	•	4	Hose
≈10 ·	503-0354	• •	8	Clamp, Hose
11	821-0010	-4	2	Screw, Cap-Locking Head - (14-20 X 12" LG)
1 A2	870-0210		2 .	Nut, Hex - Self Locking - (4-20)
13 💭	191-1149		1	Guard, Bélt - (R.H.)
1.4	191-1150		1 .	Guard, Belt - (L.H.)
15	503-0924		1	Hose
16	503-0429	· .	2	Clamp
17	505-0759		1 6	Adapter, Pipe
18.	505-0304		1	Tee, Pipe
19	505-0087	•	1	Nipple, Pipe
20	505-0140		1	Plug, Square
21	130 - 1030]	Inlet, Water
? ?	800-0131		6	Screw, Cap-Hex Head - (5/8-11 X 14" LG)
23	850-0070		12	Washer, Lock-Spring (5/8")
24	862-0007		1.2	Nut, Hex (5/8-11)
S 640	503-0782	i.	1	Hose
26	503-0612		2	Clamp, Hose
.,27	405-2506	· · ·	2	Bracket, Panel Mtg.
29	800-0030		4	Screw, Cap-Hex Head - $(5/16-11 \times 14^{11} \text{ LG})$
30	800-0072		12	Screw, Cap-Hex Head - $(7/16-14 \times 114^{\circ} \times 16)$
- j 3.1, j	850-0055]	12	Washer, Lock-Spring - (7/16")
52	504-0003	<u>.</u>		Lock, Drain
53	526-0112	. 1	10	Washer, Flat (11/16" ID X 1-3/8" OD X
		· • 623		$7/64^{n}$ Thick)
. 34	800-0133	,	6	Screw, Cap-Hex Head = $(5/8-11 \times 1-3/4)^{1}$
•			,	Long)
35	130-1359		7. Her	Bracket, Radiator Support
36	130-1193	- "	1	Gasket, Radiator Outlet
37	130-1356		1 · ·	Tube, Outlet
58	130-1007	1	2	Foam, Insulation
39	130-1006	- material anal	7 •••	Foam, Insulation
101	§ 821≿0029	l	10	Screw, Cap - Locking Head - (3/8-16 X
•	San an a			3/4" Long)
41	870-0281	1	10	Nut, Hex-Self Locking $-(3/8-16)$
ta (∂. 42) - a a a a a a a a a a a a a a a a a a	\$130-1346.],	Shroud, Partial Fan - (R.H.)
43	130-1345		1	Shroud, Partial Fan - (L.H.)
44	821-0018	1	12	/ Screw, Cap - Locking Head -
				$(l_4 - 20) \times 5/8^{11}$ Long)
45	\$26-0018]	12	Washer, Flat (17/64" 1D X 5/8" OD X
	н - <u>-</u>			1/16" Thick)
46	130-1347		1	Guard, Fan
		5	a second a s	

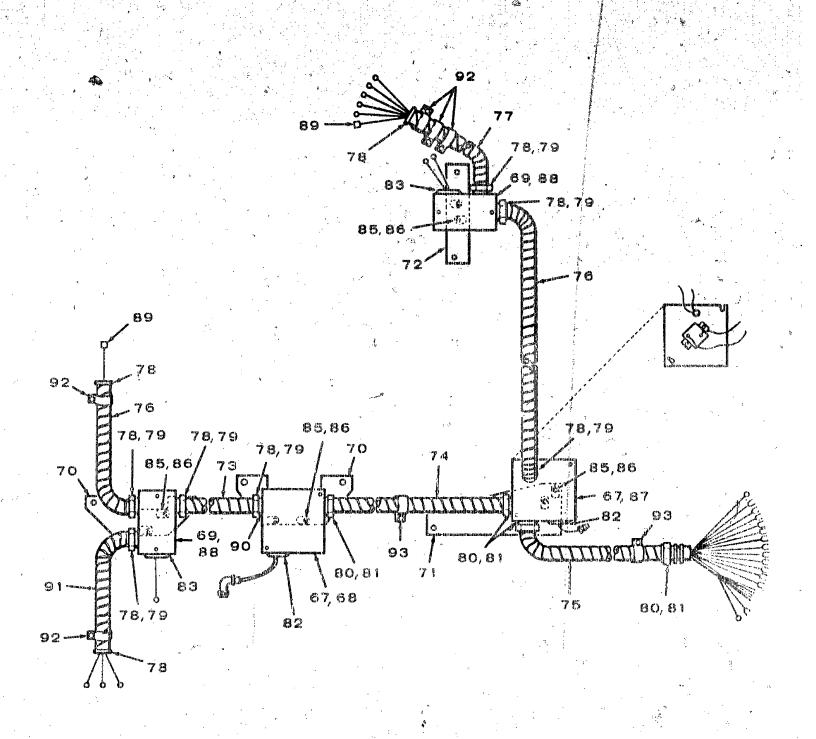








MISCELLANEOUS ENGINE PARTS



А-6

Power Generation

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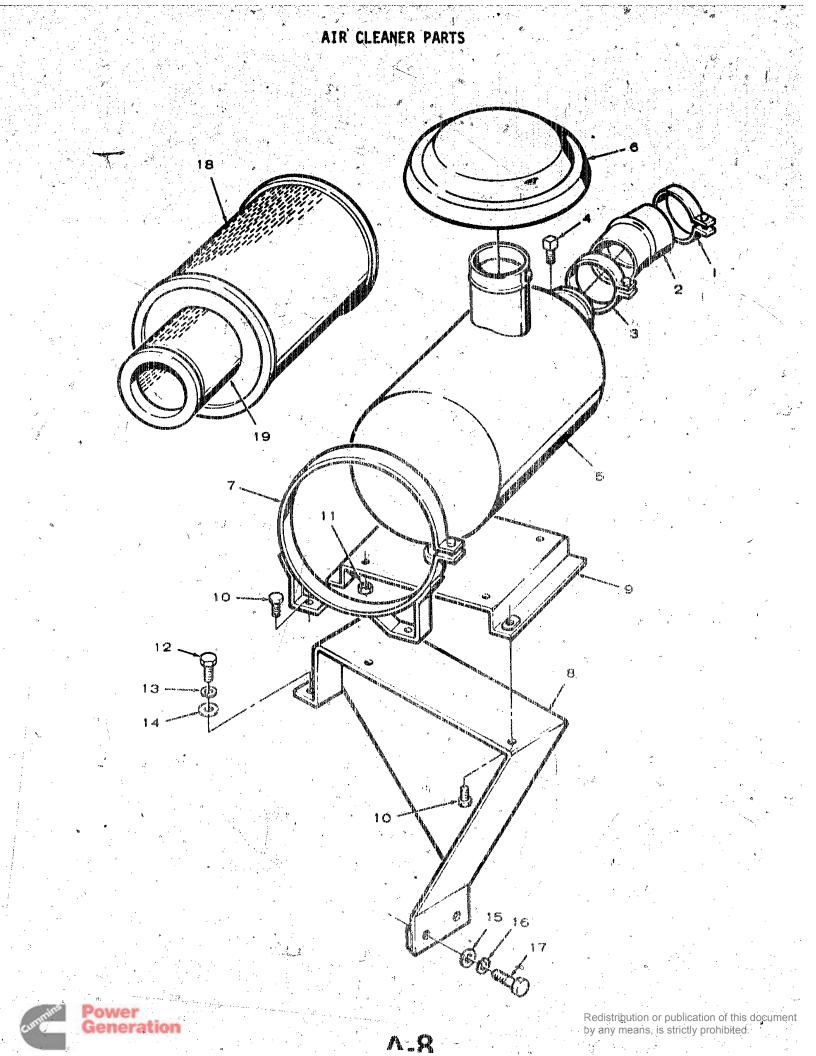
MISCELLANEOUS ENGINE PARTS

	MISCI	ELLANEOUS ENGINE	PARTS
REF. NO.	PART NO.	QTY. USED	PART DESCRIPTION
48	330-0093		
	in the All and the second second	4	* Box, Outlet
49	330-0006		* Cover, Outlet Box
50 , <u>*</u>	330-0094	2 7	* Box, Outlet
51 E 2	330-0104	1	* Bracket, Junction Box
52	330-0108	1.	* Bracket, Junction Box
53 54	330-0103	1 0	* Bracket, Junction Box 5* Conduit, Flex
55	331-0177	1	* Conduit, Flex
56.	331-0175 331174	1	* Conduit, Flex
57	331-0178	" `	* Conduit, Flex
58		1	* Conduit, Flex
59 (Star	331-0171	, 1 0	* Bushing
	508-0201 331-0149		* Connector
60	FOD 0000	· A ·	* Bushing
62	331-0150	4	* Connector
63	508-0009	2	* Grommet
64	508-0001	2	* Gronmet
65	813-0098	.,	* Screw, Machine-Round Head (#10-32 X 3/8"
05	013-0090	о 	Long)
66	853-0008	(34.200 - 17.200) R	* Washer, Lock External (#10)
67	338-1141	1	* Harness, Governor Wiring
68	330-0099	. L 1	* Cover, Outlet Box
	330-0004	2	* Cover
69 70	332-0819	· · · ·	* Housing, Fastener
71	331-0153	۴. ۲	* Washer, Reducing
72	331-0145	۵ ۲	* Conduit, Flex
73	331-0180	5	* Strap, Half
74	331-0181	2	* Strap, Half
75	338-1166	1	Harness Assembly, Engine Wiring
75	330-4100	4	(Includes Parts Marked *)
. :	151-0423	1	# Actuator, Governor (B.C. # 11003-0-0-24)
		1	# Control (Includes Mtg. Screw) - (B.C. #
	151-0399	⊥	DYNI-1000-2-0-24)
ų	151-0441	1	# Lever, Actuator (B.C. # DYNG-208)
		1	# Rod, Threaded (B.C. # GYRF-43-1)
	151-0442 151-0443	* 2	# Bearing, Rod End (B.C. # DYNZ-47-2)
		منه ۱۰۰۰ ۱	# Pickup, Magnetic (B.C. # DYNT-10200)
	151-0411)	# Bracket, Actuator Mtg. (B.C. # DYNZ-68)
		- A	

- Check for Barber-Colman numbers when ordering parts. - Parts Included in 338-1166 Wiring Harness.

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AIR CLEANER PARTS

REF. NO.	PART NO.	QTY, USED	PART DESCRIPTION
1	503-0863	1	Clamp, Hose
2	503-0913	1	Reducer, Tube
.3	503-0881	• 1	Clamp, Hose
4	140-1548	1	Indicator, Service
* 5	140-1579	ī	Cleaner, Air (Includes Elements)
6	140-1580	1	Hood, Air Cleaner
7	140-0799	2	Band, Air Cleaner Mtg.
8	140-1610	1	Support, Air Cleaner
9	140-1614	1	Plate, Air Cleaner Mtg.
10	821-0029	6	Screw, Cap - Locking Head (3/8-16 X 3/4" Long)
. 11	870-0281	A 1.47	Nut, $\text{Hex} - \text{Self Locking} - (3/8-16)$
12	800-0132	1	Screw, Cap-Hex Head - $(5/8-11 \times 1'_2" \text{ LG})$
13	850-0070	-	Washer, Lock-Spring $(5/8")$
14	526-0004		
4 · · ·	320-0004		Washer, Flat $(1)/16"$ ID X 1-3/4" OD X
3 1 4	526 0070	•	9/64" Thick)
15	526-0032		Washer, Flat (24/64" ID X 778% OD X
	· · · · · · · · · · · · · · · · · · ·		1/16" Thick)
16	850-0055	1	Washer, Lock-Spring (7/16")
17	800-0071	1	Screw, Cap-Hex Head - (7/16-14 X 1" Long)
18	140-1654	1	Element, Primary-
19	140-1655	1	Element, Safety

A-9

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Power Generation

GENERATOR

. 1

REF. NO.	PART NO. QTY. USE	D PART DESCRIPTIO	N
	Rotor Assembly, Wound		
	201-1785 201-1784 1	520R & 522R Set 4XR Sets	s (50 Hertz) (60 Hertz)
14	Stator Assembly, Wound (220-2763 1	(Includes Bus Bars) 520R Sets	(50 Hertz)
	220-2765	522R Sets	(50 Hertz) (60 Hertz)
	220-2756 1	4XR Sets	(ou mertz)

	CONTROL (AC)	PORTION)	
REF. NO.	PART NO. QTY	USED PART DESCRIPTION	
1 2 6 7	301-4668 1 301-3342 1 302-1072 1 Ammeter, AC 302-0414 302-0415 1 Meter; Frequency	Box, Control Panel, Control Voltmeter - (0-600 Vol 520R & 522R Sets 4XR Sets	lt)
	302-0895 1 302-0811 1	50 Hertz 60 Hertz	• •
22	332-2030	Regulator Board, Volta Group For Components	
29 35	338-07591321-02234	Harness, Wiring - Cont Fuse - 15 Ampere	trol
36 37	321-0177 1 321-0176 1 333-1104 1	Block, Fuse - 3 Pole Block, Fuse - 2 Pole 'Harness, Wiring	
38 39	151-0402	Potentiometer, Governe	or Adj.

	يند در لي الم	CONTROL HOUSING	
REF. NO.		PART NO. QTY. USED	PART DESCRIPTION
1 1		331-0088 1 821-0010 13	Bushing, Nylon Screw, Cap-Locking Head (4-20 X 41 Long)
3 (f 4	•. • •	301-2904 1 821-0014* 18	Plate, Control Box Top Screw, Cap-Locking Head (5/16-18 X 12" LG)
5 6		301-4125 30 301-4110 1	Bracket, Control Box Housing Panol, Control Insert
7 8 0		301-4118 1 508-0203 2 301-2905 2	Housing, Control Box Bushing Plate, Side
10	* {	232-1973	Grille, End Boll





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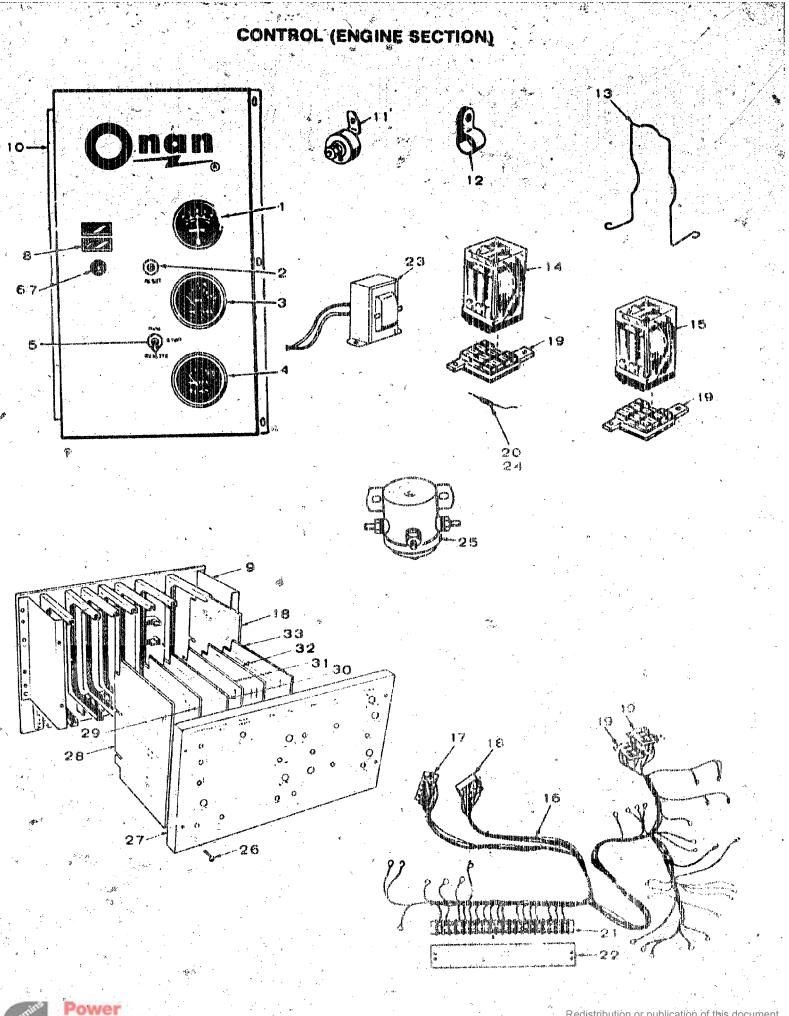
	1) 1 1 1 1	CHASSIS	
REF. NO.	PART NO.	QTY: USED	PART DESCRIPTION.
	403-1456	1	Base, Skid
10 13	416-0690 403-1457	1 1 1	Tray, Battery Panel, Base
15 19	416-0692	2	Strap, Battery Hold Down
20	403-1434 232-1489	6	Support, Engine Shim, Generator Mtg.
21	232-1490	6	Shim, Generator Mtg.

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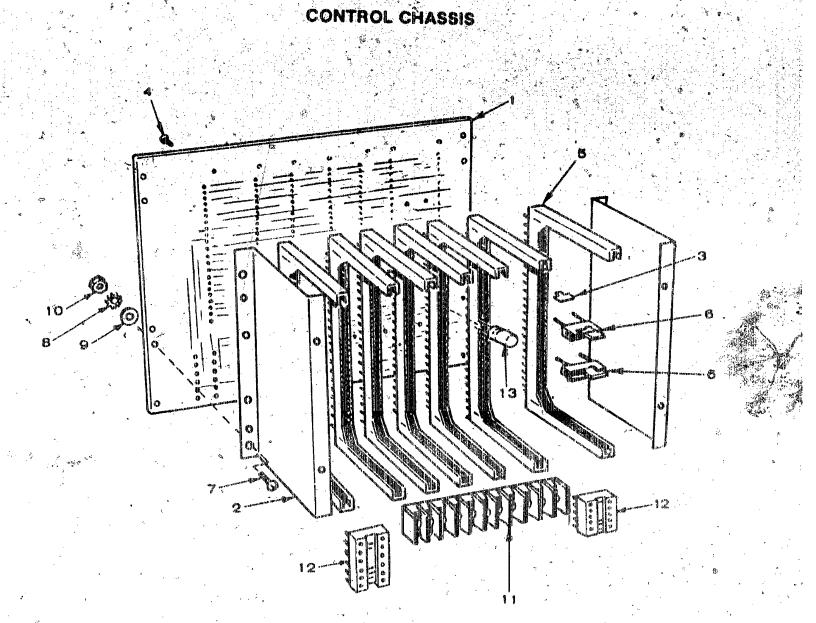
CONTROL (ENGINE SECTION)

REF.	PART	ary.	PART	206. Hos 180	Sh a a a		₩
NO.	NO.	USED	DESCRIPTION	REF. No.		OTY.	PART
. ×4	302-0061				NO.	USED	DESCRIPTION
	308-0410		Ammeter (30-0-30)	· 16	338-1018	1	Harness, Wiring (Includes
· •			Switch, Push				Parts Marked †)
<u> </u>	193-0243		Gauge, Oll Pressure (0-80)	17 /-	-332-0984	2,*	TConnector, Plug, Electrical
2 (% 4)	193-0245		Gauge, Water Temperature		New York, and		(12 Pin)
2	SWITCH, TO	JOGLE		18	300-1579	1	*Module, Time Delay Start-Stop
None	308-0220		Standard Sets	19	323-0765	2	†Socket, Relay
	308-0347		Penn State Sets	20	357-0004	1	†Diode 1 and a second
<u> </u>	321-0147		Fuse - 5 Amp	21	332-1005		+Board, Terminal (20 Place)
	321-0217	1	Fuseholder	22	332-1559	1 1 1 .	Strip, Marker
. 8	LIGHT, IND	ICATOH		23	315-0361	1	Transformer, Step-down
	322-0119	1	Overcrank		357-0004	2	Diode
	322-0120	í 1	Low Oil Pressure	25	307-0051	· 1	Relay - Start Solenoid
	322-0121	1	High Engine Temperature	26	815-0387	4	Screw, Machine - Pan Head,
	322-0122	1	Low Engine Temperature		-		Cross-Recessed Drive
	322-0123		Overspeed	1		4	(#6-32 x 1/4")
	322-0135	. 1	Over Voltage	27	301-4015	1	Cover, Acess - Control
9	300-1572	. 1	*Chassis, Control			· · ·	Modules
10	301-4692	, t_	Panel, Control	28	300-1573	1	*Module, Cycle Cranker
11	193-0250	2 [®]	Resistor, Gauge	29	309-1574	ີ 1	*Module, Start-Disconnect 👘 🕔
12	332-0052	i 1 .	Clamp, Loop	30	300-1575	21 € 1 3	"Module, Overspeed Control
. 13	307-1157	2	Spring, Hold-down - Relay	31,	300-1576	1	*Module, Monitor No. 1
14	307-1061	1	Relay, Armature - Startor	32	300-1577	1	"Module, Monitor No 2
			Protection	33	300-1578	- 1	"Module, Engine Shutdown
15	👕 307-1056 👘	1	Relay, Armature - Start				
			Disconnect	•	- See Separat	e Group fo	or Components.
•.	19 · · ·			; † -	Included in !		

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4	REF. MO.	PART No.	OTY. USED	PANT Description
		300-1572	1	Chassis, Control (Complete)
්	al	332-1884	1	Board, Printed Circuit
	- 2	301-3880	<u> </u>	Bracket, Module Cover Mig.
	- 3	332-1917	14	Plug, Keying
	4	812-0029	14	Screw, Machine - Roundhaud (#4-40 x 3/8" long)
-	5	332-4887		-Socket Plug In Montule
3	6	308-0324	2	Switch, Slide
	7	812-0059	4	Screw, Machine - Roundhead (16-32-x, 1/4" Jong)
		853-0003 👋	- 4	Washer, Lock - External (#6)
;	9	526-0047	4	Washer, Flat (.147" 1D x 5/16" OD x 1/32" Thk)
	10	860-0006	4	Nut. Hax (#6-32)
	11	332-1909	1	Block, Terminal (11 Place)
	12	323-0983	2 1	Connector, Receptacte
	13	355-0068	1 • 3.4	Capacitor, Electrolylic (1601//FD - 40 Volt)

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